

OTIC FILE CORY



UNITED STATES AIR FORCE

OGOPATIONAL SURVEY SELECTED SEPORT SALLOS 1987

MAINTENANCE DATA SYSTEMS ANALYSIS

CAREER LADDER

AND

MAINTENANCE SCHEDULING CAREER LADDER

AFSCs 391X0 AND 392X0

AFPT 90-391-539 AFPT 90-392-540

JUNE 1987

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150-5000

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

DISTRIBUTION FOR AFSC 391X0/392X0 OSR AND SUPPORTING DOCUMENTS

	OSR	ANL EXT	TNG EXT	JOB INV
AFHRL/MODS AFHRL/ID	4	2m	2m	
AFLMC/XR	2 1	2m	2m/2	h
AFMPC/DPMRPQ1	2		2	
ARMY OCCUPATIONAL SURVEY BRANCH	ī			
CCAF/AYX DEFENSE TECHNICAL INFORMATION CENTER	7			
DEFENSE TECHNICAL INFORMATION CENTER HQ AFCC/LGM	2 1			
HQ AFCC/MPXT	i		1	
HQ AFCC/TTGT	3		3	
HQ AFISC/DAP	3 2 2 2		•	
HQ ATC/DPAE HQ ATC/TTQL	2		2 2	
HQ MAC/LGM	1		1	
HQ MAC/DPAT	6			
HQ MAC/TTGT	2		6 2 1	
HQ PACAF/LGM HQ PACAF/TTGT	1 2		2	
HQ PACAF/DPAT	6		6	
HQ SAC/LGM	Ĭ		ĭ	
HQ SAC/DPAT	6		6	
HO SAC/TTGT	2		2 1	
HQ TAC/LGM HQ TAC/DPATJ	É			
HQ TAC/TTGT	2		6 2	
HQ USAF/LEYM	ī		2 2	
HQ USAF/DPPT]		2	
HQ USAFE/LGM	j		1	
HQ USAFE/DPAT HQ USAFE/TTGT	6 2		6 2	
HQ USMC (CODE TPI)	ĺ		L	
NÒDAC	1			
3330 TCHTW/TTGX (CHANUTE AFB IL)	8	4	16	4
3330 TCHTW/TTS (CHANUTE AFB IL)	2 2		2	c
DET 2, USAFOMC (CHANUTE AFB IL) USAFOMC/OMYXL	10	4m	2 10	2 10
3507 ACS/DPKI	Ĭ	7111	, 🗸	. •

m = Microfiche only
h = Hard copy only

NOTE: Distribution includes products for both the 391XO and 392XO career ladders

TABLE OF CONTENTS

	FAGE NUMBER
PREFACE	iy
SUMMARY OF RESULTS	v
INTRODUCTION	j
Background	1
SURVEY METHODOLOGY	2
Inventory Devalopment	2 3 4 4
SECTION I	
SPECIALTY JOBS (Career Ladder Structure)	7
Overview of Specialty Jobs	7 10 21 21 23 26
SECTION 11	
ANALYSIS OF 391X0 DAFSC GROUPS	26 29 31
ANALYSIS OF 391X0 AFR 39-1 SPECIALTY DESCRIPTIONS	36
391XO TRAINING ANALYSIS	36 M
Training Emphasis and Task Difficulty Data	36 [] 37 [] 40
AFSC 397XC NAJCOM AND CUNUS-OVERSEAS GROUP COMPARISONS	48
	/ Codes



Dist Special

TABLE OF CONTENTS (CONTINUED)

	PAGE NUMBER
SECTION III	
ANALYSIS OF 392X0 DAFSC GROUPS	51
Skill Level Descriptions	51 58
ANALYSIS OF 392X0 AFR 39-1 SPECIALTY DESCRIPTIONS	58
392XO TRAINING ANALYSIS	61
Training Emphasis Data	61 62 62 67
AFSC 392XG MAJCOM AND CONUS-OVERSEAS GROUP COMPARISONS	71
SECTION IV	
JOB SATISFACTION ANALYSIS	73
IMPLICATIONS	81
ALIDERIEST V. A	02

PREFACE

This report presents the results of a detailed occupational survey of the Maintenance Data Systems Analysis (AFSC 391X0) and Maintenance Scheduling (AFSC 392X0) career ladders. Authority for conducting occupational surveys is contained in AFR 35-2. Computer printouts used in the analysis of this report are available for use by operations and training officials.

The survey instrument was developed by First Lieutenant William Carney, Inventory Development Specialist, with computer support furnished by Ms Olga Velez. Ms Anita R. Carter provided administrative support. Captain Paula N. Erichsen, Occupational Analyst, analyzed the survey data and wrote the final report. This report has been reviewed and approved for release by Lieutenant Colonel Charles D. Gorman, Chief, Airman Analysis Branch, Occupational Analysis Division, USAF Occupational Measurement Center, Randolph AFB, Texas.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel (see DISTRIBUTION on page i). Additional copies are available upon request to the USAF Occupational Measurement Center, Attention: Chief, Occupational Analysis Division (OMY), Randolph AFB, Texas 78150-5000 (AUTOVON 487-6623).

RONALD C. BAKER, Colonel, USAF Commander USAF Occupational Measurement Center JOSEPH S. TARTELL
Chief, Occupational Analysis Division
USAF Occupational Measurement
Center

SUMMARY OF RESULTS

- 1. Survey Coverage: The 39XXX career ladders were surveyed to obtain current data for use in training management decisions and to assess the utilization of former AFSC W-392XO personnel. A combined job inventory was administered worldwide between December 1985 and April 1986. The 2,110 respondents comprising the final sample included 782 members holding DAFSC 391XO (89 percent of those eligible) and 1,328 members reporting DAFSC 392XO (85 percent of those eligible). The overall 39XXX career field, as well as all using major commands, was well represented in the survey sample.
- 2. Specialty Jobs: Six clusters and nine independent job types were identified in the career ladder structure analysis. Five clusters and eight of the independent job types were clearly AFSC-specific, with members performing technical duties characteristic of the career ladders involved. The remaining cluster and independent job type represented a combination of both 391XO and 392XO personnel working in either supervisory/managerial or technical training positions. Although the majority of former AFSC W-392XO personnel have transitioned into the 391XO career ladder, a fairly substantial number are still working in jobs specific to the 392XO career ladder and are reporting a 392XO DAFSC.
- 3. Career Ladder Progression: In both career ladders, 3- and 5-skill level jobs were primarily technical in nature, with little responsibility for supervision or management. Supervisory, managerial, and administrative functions became the more dominant characteristics of the 7-skill level jobs in each ladder, although a variety of technical tasks were still performed. Nine-skill level and CEM Code personnel were performing a predominantly staff-type job and are the primary managers in their career ladders.
- 4. AFR 39-1 Specialty Descriptions: Descriptions for both the 391X0 and 397X0 career ladders were complete and accurately portrayed the nature of the jobs.
- 5. Iraining Analysis: Both the STS and POI for the 391XO career ladder showed several items performed by low percentages of respondents when compared with survey data. Also, several tasks supported by survey data were not matched to either document. The 392XO STS was generally well supported by survey data. The POI, however, showed several objectives performed by low percentages of first-job and first-enlistment respondents. Overall, a thorough review of the STS and POI for both career ladders is in order.
- 6. Implications: The current classification structure is clearly supported by survey data. Adjustments to the training documents for both career ladders are probably appropriate. The utilization of former AFSC W-392XO personnel should be reviewed by career field managers.

CAMPACATIVE CONTRACTOR SOCIONAL SOCIAL SOCIA

OCCUPATIONAL SURVEY REPORT HAINTENANCE MANAGEMENT SYSTEMS CAREER LADDERS (AFS 39XXX)

INTRODUCTION

This is a report of an occupational survey of the Maintenance Data Systems Analysis (AFSC 391X0) and Maintenance Scheouling (AFSC 392X0) career ladders completed by the Occupational Analysis Division, USAF Occupational Measurement Center. Previous survey results pertaining to the Maintenance Management Systems career field were published in October 1978 (AFSC 392X0) and October 1979 (AFSC 391X0).

Background

This survey was requested by the 3330 Technical Training Wing, Chanute AFE IL, and HQ ATC/TTQL to assess the impact on training of the October 1982 restructuring of the 39XXX career field. Prior to October 1982, the 391X0 career ladder was separated into two shredouts: A - Aerospace Weapons Systems, and B - Communications-Electronics. The 392XO career ladder was entered laterally by personnel previously qualified at the 5- or 7-skill level Additionally, in April in one of several maintenance-related specialties. 1976, maintenance documentation functions related to the Maintenance Management Information and Control System (MMICS) were added to the 392XO Hadder, and a W-prefix representing systems analyst functions was assigned to the ladder to designate this files maintenance (data base management) function. With the advent of the October 1982 restructuring, several changes occurred. The A and B shredouts were deleted from the 391X0 career ladder, and the W-prefix (data base management) responsibilities of the 392XO career ladder were realigned into the 391XO career ladder. The 392XO career ladder became a direct-entry versus lateral-entry ladder with input from Basic Military Training School directly to the technical school at Chanute AFB IL. In addition, the 39300 CEM Code was deleted from the career field and replaced with separate CEM Codes for each ladder (AFSCs 39100 and 39200, respectively).

Specifically, two major issues will be addressed in this report: (1) Current training requirements for the 391XO and 392XO career ladders in light of the October 1982 restructuring of the 39XXX career field, and (2) Current utilization of former AFSC W-392XO personnel.

As described in the AFR 39-1 specialty descriptions, personnel in the 391XO career ladder are responsible for monitoring, collecting, assembling, and auditing maintenance data for reports and briefings; controlling and operating the Nanagement Information System; and coordinating and interacting.

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

with base data services monitors. Personnel in the 392XO specialty are responsible for planning and scheduling utilization and maintenance of aircraft, engines, munitions, and associated aerospace ground equipment (AGE), including precision measurement equipment (PME); scheduling and controlling workload requirements; and maintaining weapons system records.

Frimary entry into these career ladders is from Basic Nilitary Training School through a Category A, 12-week formal training course for 391X0 personnel (C3ABR39130-001) and a Category A, 9-week 4-day formal training course for 392X0 personnel (C3ABR39230-000). Course coverage for 391X0 personnel includes equipment maintenance procedures, data processing fundamentals, specific data loading for files maintenance, man-hour and maintenance data systems, procedures for troubleshooting and maintaining the MMICS data base systems, files recovery procedures. Air Force Online Data Systems (AFOLDS) applications, statistical applications, analysis and graphic presentation of maintenance data, and use of calculators and microcomputers. Course coverage for 392X0 personnel includes maintenance management concepts, data systems and reports, configuration management of time compliance technical orders, aerospace vehicle inspection and time change item requirements, forecasting marpower and aerospace vehicle and support equipment capabilities, developing generation flow plans and maintenance plans, and engine tracking planning.

Since this report covers two separate ladders, the report is divided into four sections. The first section deals with the career ladder structure utilizing the total sample of 391XO and 392XO personnel. Sections II and III discuss the separate ladders, including topics such as: (1) comparison of specialty jobs (career ladder structure) and other survey data with career ladder documents, such as AFR 39-1 Specialty Descriptions, Specialty Training Standards, and Plans of Instruction; (2) analyses of DAFSC groups; and (3) MAJCOM and CONUS-Overseas group comparisons. Section IV will highlight an analysis of job satisfaction data utilizing the total sample of 391XO and 392XO personnel, along with the survey implications.

SURVEY METHODOLUGY

Inventory Development

The data collection instrument for this survey was USAF Job Inventory AFPT 90-391-539 and AFPT 90-392-540, dated December 1985. A tentative task list was prepared after reviewing pertinent career ladder publications and directives, tasks from the previous survey instruments, and data from the last occupational survey reports (OSR). This preliminary task list was refined and validated through personal interviews with 34 subject-matter experts selected to cover a wide variety of 391XO and 392XO career ladder functions at the following locations:

Bergstrom AFB TX: TAC base; selected to interview 391X0 and 392XO personnel working at the Numbered Air Force and wing levels.

Chanute AFB IL: Location of ABR technical training courses.

Dyess AFB 1X: SAC base; selected to interview personnel working with the Core Automated Maintenance

System (CAMS).

Ellsworth AFB SD: SAC base with both a missile wing and a bomb

Wing.

Langley AFB VA: TAC base; selected to interview 391XO and

392XO personnel working at the headquarters

level and within a fighter wing.

McGuire AFB NJ: Host base and a typical MAC base in terms of

data compilation and analysis for an airlift

mission.

Scott AFB IL: Selected to interview 391X0 personnel with

knowledge in the Communications-Electronics

(C-E) area.

Pease AFB NH: Host unit and a typical SAC base.

The resulting job inventory contained a comprehensive listing of 541 tasks grouped under 17 duty headings and a background section requesting such information as grade, duty title, level of organization assigned, and job satisfaction data.

Survey Administration

During the period December 1985 through April 1986, Consolidated Base Personnel Offices (CBPO) in operational units worldwide administered the inventory to job incumbents holding DAFSC 39XXX. These job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Air Force Human Resources Laboratory (AFHRL).

Each individual who completed the inventory first completed an identification and biographical section and then checked each task performed in his or her current job. After checking all tasks performed, each member then rated each of these tasks on a 9-point scale showing relative time spent on that task, as compared to all other tasks checked. The ratings ranged from 1 (a very small amount of time spent) to 9 (a very large amount of time spent).

To determine relative time spent for each task checked by a respondent, all of an incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job and are summed. Each task rating is then divided by the total task ratings and multiplied by 100 to provide a relative percentage of time for each task. This procedure provides a basis for comparing tasks in terms of both percent members performing and average percent time spent.

Survey Sample

Personnel who participated in the survey were carefully selected to ensure an accurate representation across major commands (MAJCOM) and paygrade groups. All eligible DAFSC 39XXX personnel were mailed survey booklets. Table 1 reflects the percentage distribution, by MAJCOM, of assigned personnel in the 391XO and 392XO career ladders as of Pecember 1985. Also shown is the MAJCOM distribution of the survey respondents. The 782 DAFSC 391XO respondents in the final sample represent 66 percent of the total assigned personnel and 89 percent of those eligible. The 1,328 DAFSC 392XO respondents represent 65 percent of the total assigned personnel and 85 percent of those elicible. Table 2 reflects the paygrade distribution for DAFSC 39XXX members. As reflected in these tables, the survey sample provides a very good representation of the career ladder populations.

Task Factor Administration

In addition to completing the job inventory, selected serior AFSC 391X0 and 392X0 personnel were asked to complete a second booklet for either task difficulty (TD) or training emphasis (TE). These booklets are processed separately from the job inventories. The rating information is then used in a number of different analyses discussed in detail within this report.

Task Difficulty (TD). Each individual completing a TD booklet was asked to rate all inventory tasks on a 9-point scale, ranging from 1 (extremely low relative difficulty) to 9 (extremely high relative difficulty). Difficulty is defined as the length of time required by the average member to learn to do the task. Task difficulty data were independently collected from 57 senior 391XO personnel and 62 senior 392XO personnel stationed worldwide. The interrater reliability (as assessed through components of variance of standardized group means) of the TD data provided by the AFSC 391XO raters was .95, indicating excellent agreement among raters. An analysis of the data provided by the AFSC 392XO raters revealed that a sufficient level of agreement between these raters was not found; thus, TD data for AFSC 392XO personnel will not be reported in this study. Task difficulty ratings were adjusted so tasks of average difficulty have a rating of 5.00, with a standard deviation of 1.00. The resulting data are essentially a rank ordering of tasks indicating the degree of difficulty of each task in the inventory.

Training Emphasis (TE). Individuals completing TE booklets were asked to rate inventory tasks on a 10-point scale ranging from 0 (no training required) to 9 (extremely heavy training required). Training emphasis is a rating of which tasks require structured training for first-enlistment personnel. Structured training is defined as training provided at resident technical schools, field training detachments, mobile training teams (MTT), formal OJT, or any other organized training. Training emphasis data were independently collected from 110 experienced AFSC 391X0 and 56 experienced AFSC 392X0 personnel stationed worldwide. The interrater reliability (as assessed through components of variance of standardized group means) was .97 for 391X0 raters and .97 for 392X0 raters, indicating that within each career ladder there was

TABLE 1 COMMAND REPRESENTATION OF SURVEY SAMPLE

	391	X0	392	X0
COMMAND	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
TAC	30	28	31	33
SAC	24	24	20	21
MAC	1 1	. 12	14	Ìΰ
USAFE	9	11	13	14
ATC	7	6	10	6
AFCC	7	6	**	**
PACAF	5	5	5	4
AFSC	4	4	3	4
AAC	1	2	2	1
OTHER	2	2	ì	1

	391X0	392X0
Total Assigned:	1,192	2,058
Total Eligible: ***	875	7,560
Total in Sample:	782	1,328
Percent of Assigned in Sample:	66%	65%
Percent of Eligible in Sample:	89%	85%

^{*} Assigned strength as of December 1985 ** Less than 1 percent

^{***} Excludes those in PCS status, students, hospitalized personnel, and personnel with less than 6 weeks on the job

TABLE 2

PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

	391	хо	392	X0
PAYGRADE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
AIRMAN	13	8	31	29
E-4	28	30	12	16
E-5	2 2	23	24	26
E-6	18	17	18	16
E-7	15	17	11	10
E-8	3	3	3	?
E-9	7	2	l	1

^{*} Assigned strength as of December 1985

very high agreement among raters as to which tasks required some form of structured training and which did not. In the 391XO specialty, tasks rated high in TE have ratings of 2.82 and above, with an average TE of 1.51. Tasks rated high in TE for the 392XO career ladder have ratings of 3.34 and above, with an average TE of 1.59. As discussed in the Task Difficulty section above, TE rating data may also be used to rank order tasks, indicating those tasks which senior NCOs in the field consider the most important for first-term airmen to know.

SECTION 1

SPECIALTY JOBS (Career Ladder Structure)

A key aspect of the USAF occupational analysis program is to examine the job structure of a career ladder. Based on incumbent responses to survey questions, the tasks performed by career ladder personnel are examined and jobs are identified based on the similarity of tasks performed by incumbents and the relative time they spend performing the tasks. The resulting job structure is then compared to official career ladder documents. This analysis of actual jobs performed is made possible by the use of the Comprehensive Occupational Data Analysis Program (CODAP). This information can be used to examine the accuracy and completeness of career ladder documents (AFR 39-1 Specialty Descriptions and Specialty Training Standards) and to gain an understanding of current utilization patterns.

For this report, the career ladder structure is described in terms of clusters and independent job types. A cluster represents a larger unit of related job types. The job type is the basic unit of job analysis. It represents a specific group of individuals performing basically the same tasks and spending similar amounts of time on those tasks. When job type members perform tasks in common with other groups, they merge to form a larger unit of related jobs termed a cluster. Specialized job types too dissimilar to fit within a cluster are labeled independent job types (IJT).

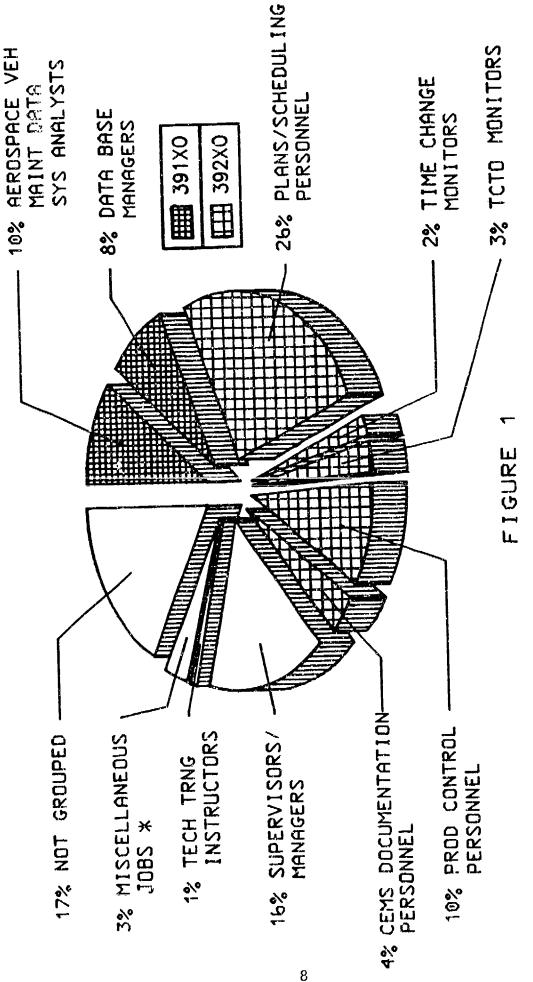
Overview of Specialty Jobs

The specialty job structure of the Maintenance Management Systems career field was determined by performing a job type analysis of the survey data provided by the 782 AFSC 391X0 and 1,328 AFSC 392X0 survey respondents. Based on task similarity and the amount of relative time spent performing each task, the jobs performed by 39XXX personnel separated into two functional areas, six clusters and nine independent job types. Figure 1 illustrates this division of jobs. Five of the clusters were formed primarily by personnel in either the 391X0 or 392X0 specialty, while the sixth cluster was formed based on performance of tasks common to management and staff functions and included airmen from both 39XXX specialties surveyed. Only one of the independent job types (focusing on training responsibilities) contained representation from more than one career ladder. Overall, ladder distinctions were clear, with these AFSC-specific groupings indicating that the specific career ladders generally perform separate and distinct jobs.

THE REPORT OF THE PROPERTY OF

39XXX CAREER LADDER STRUCTURE AFSC

COLUMN DESIGNATION DE L'ANDRES DE L'ANDRES



ANALYSTS, HO AFOTEC/USAFTAWC PERSONNEL, OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS, * MISCELLANEOUS JOBS INCLUDE MICS/CAMS FUNCTIONAL SYSTEMS MANAGERS, SPECIAL STUDIES AND C-E STAFF ANALYSTS--ALL 391X0 JOBS--AND 392X0 MAJCOM AVDOS.

The six clusters and nine independent job types are listed below by title. The group (GRP) number beside each title is a computer-generated reference number. The letter "N" stands for the number of personnel in each group.

MAINTENANCE DATA SYSTEMS ANALYSIS FUNCTIONAL AREA

- AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS CLUSTER (GRP083, N=210)
- II. DATA BASE MANAGERS CLUSTER (GRP171, N=161)
- III. MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS CLUSTER (GRP380, N=16)
- IV. SPECIAL STUDIES ANALYSTS IJT (GRP538, N=6)
- V. HQ AIR FORCE OPERATIONAL TEST AND EVALUATION CENTER (AFOTEC)/ USAF TACTICAL AIR WARFARE CENTER (USAFTAWC) PERSONNEL JJT (GRP435, N=5)
- VI. OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS 1JT (GRP230, N=10)
- VII. COMMUNICATIONS-ELECTRONICS (C-E) STAFF ANALYSTS IJT (GRP192, N=17)

MAINTENANCE SCHEDULING FUNCTIONAL AREA

- VIII. PLANS AND SCHEDULING PERSONNEL CLUSTER (GRP206, N=560)
 - 1X. TIME CHANGE MONITORS IJT (GRP420, N=36)

- X. TIME COMPLIANCE TECHNICAL ORDER (TCTO) MONITORS IJT (GRP396, N=62)
- XI. CONSOLIDATED ENGINE MANAGEMENT SYSTEM (CEMS) DOCUMENTATION PERSONNEL IJT (GRP453, N=85)
- XII. PRODUCTION CONTROL PERSONNEL CLUSTER (GRP130, N=218)
- XIII. MAJCOM AEROSPACE VEHICLE DISTRIBUTION OFFICERS (AVDOs) IJT (GRP472, N=5)

OTHER JOBS

- XIV. TECHNICAL TRAINING INSTRUCTORS IJT (GRP178, N=23)
- XV. SUPERVISORS/MANAGERS IJT (GRP154, N=333)

Eighty-three percent of the survey respondents fell into the above job groups. The remaining 17 percent were performing tasks or sets of tasks that did not group with any of the defined job groups. Some of the job titles given by these personnel include Base Engine Manager, Base PNEL Coordinator, and Policies and Procedures Analyst.

Group Descriptions

The following paragraphs contain brief descriptions of the clusters and independent job types identified in the analysis. Selected background data are provided for these groups in Table 3. Representative tasks, together with selected background data, are listed in Appendix A.

1. AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS CLUSTER (GRP083, N=210). This cluster of 210 airmen (the largest group of 391X0 personnel identified) represents 10 percent of the total survey sample. Comprised almost entirely of 391X0 personnel (98 percent of the group), 68 percent of the incumbents hold DAFSC 39150 and 14 percent report DAFSC 39170. These personnel perform all facets of aerospace vehicle (aircraft and missile) maintenance data analysis. Overall, this includes monitoring and evaluating maintenance data, and writing reports or giving briefings on the maintenance trends and capabilities identified. Of the average 33 tasks performed by the group, typical ones include:

compile data for aircraft summaries
prepare maintenance summaries
evaluate maintenance data collection (MDC) data
prepare aircraft studies or briefings
review full mission capable rates (FMCR) for developing
trends or problems
collect aircraft or missile scheduling effectiveness data
assemble data or records for computation of statistics,
such as mean time between failure (MTBF)

The majority of these personnel report being assigned to either the wing (70 percent) or squadron (20 percent) level. Several identified themselves as bedicated Aircraft Maintenance Unit (AMU) Analysts, working within a particular AMU, but still being carried as a wing resource. Overall, a high degree of diversity was noted within the cluster itself. Although the majority of

TABLE 3

SELECTED BACKGROUND INFORMATION FOR CAREER LADDER STRUCTURE GROUPS

C-E STAFF ANALYSTS (GRP192)	17 * 71%		23%	77%	0	0 (> 0	00	E-6	ı un	თ გ თ გ	- 4 3 84	\$2 %2
OPERATIONAL TEST AND EVAL TEAM ANALYSTS (GRP230)	10 * 100%		0 20%	70% 10%	0	0 (5 0	00	E-6	166	25	30%	0
HQ AFOTEC/ USAFTAWC PERSONNEL (GRP435)	100 %		00	80% 20%	0	0 (ప రా	00	E-7,E-8) C	59	೨೮	0
SPECIAL STUDIES ANALYSTS (GRP538)	0 * 80 93 93		170	83%) O	0	0 C	00	E-5,E-6	115	~	0 0) 0 0) 7 9%	37%
MMICS/CAMS FUNCTIONAL SYS MGRS (GRP380)	3. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.		တိုင	75 % 70 00 71 (11	38.	0	00	% % W Q	E-7	230	27	4 %	75%
DATA BASE MANAGERS (GRP171)	161 8 % 64%		r. 44 t/ 36 3-6	30°	0	0	00	00	E-5	119	50	40% 40%	24%
AEROSPACE VEHICLE NAINTENANCE DATA SYS ANALYSTS (GRPO83)	210 10% 68%		% %€ 00 00 00	24 8 86 9.	1 - 6 9€	Φ.	3 ° 5° -	00	E-4	7 දා ර	ස (5001 5001	હ્ય
	NUMBER IN GROUP PERCENT OF TOTAL SAMPLE PERCENT IN CUNUS	DAFSC DISTRIBUTION (PERCENT RESPONDING)	39130 39150	39170	39100	39230	39250 39270	39290 39200		AVERAGE TICE (HONTES) AVERAGE TAFMS (MONTHS)	NUMBE	PERCENT FIRST ENLISTMENT PERCENT SUPERVISING	PERCENT HOLDING FORMER W-392XO AFSC

^{*} Less than I percent ** Time in Career Field

TABLE 3 (CONTINUED)

SELECTER BACKGROUND IMPORMATION FOR CAREER LADDER STRUCTURE GROUPS

150RS/ 85 1)	~2 20		>0	**	~	0	~ .ti		~	~v:	~0	~0	E-7	· ~	-4		<i>%</i>	3 5	•	5°
SUPERVI MANAGERS (GRP154)	333 16% 68%		F	14%	368	ő	(**)	*	4	21%	8	4	E-6.	118	761	ω	4	23	ì	<u> </u>
TECHNICAL TRAINING INSTR (GRP178)	20 00 00 00 00 00 00 00 00 00 00 00 00 0		0	7%	26%	0	0	4%	44%	% 6	0	0	E-5	94	133	9	13%	13%	``	4 8
MAJCOM AEROSPACE VEHICLE DISTR OFFICERS (GRP472)	rv * % % %		0	C	20%	0	0	0	O	40%	20%	20%	1 1	155	N	32	O	%00	č	802
PRODUCTION CONTROL PERSONNEL (GRP 13C)	218 10% 74%		*	c	+ (0	0	12%	57%	%62	*	O	E-4-, E-5	64	107	0	45%	ယ	•	t. t
CEMS DOC PERSONNEL (GRP538)	85 44 88		0	ပ	0	0	0	6% 6%	\$\langle 0.00	55 84	0	ن	E-4.E-5	53,	î~ ;	~ .	38%	~~		^{ुद} च
TCTO MONITORS (GRP396)	62 65% 65%		0	O	0	٥	0	15%	74%	<u>. </u>	0	O	E-4	46	74	<u> </u>	50 50 50 50	5	i L	ů,
TIME CHANGE MONITORS (GRP420)	36 2% 61%		0	3,8	0 (ပ	0	22%	69%	89	0	0	E-3,E-4	37	5 5 9	∞_	£/%	က %	9	3,4
PLANS AND SCHEDULING PERSONNEL (GRP206)	560 26% 72%		0	0	O (C	0	% ©	26%	35%	*	*	E-4.E-5	60	102	ලිව	43%	43%	**************************************	t t
	NUMBER IN GROUP PERCENT OF TOTAL SAMPLE PERCENT IN CONUS	DAFSC DISTRIBUTION (PERCENT RESPONDING)	39130	39150	39170	39190	39100	39230	39250	39270	39290	39200	AVERAGE PAYGRADE	TICF*	TAFMS	NUMBE	PERCENT FIRST ENLISTMENT	PERCENT SUPERVISING	FULLING FUREING FUREING TORRING TORRING	W-592AU AFSC

* Lest than I percent ** Time in Carper Field

analysts followed essentially the same analysis process, their day-to-day taskings were dependent on the needs of the particular squadron or wing to which they were assigned. Thus, analysis identified only 11 tasks performed by over 50 percent of the cluster members, as opposed to a more homogeneous group where this figure would be much higher. All MAJCOMS are represented in this group, with the majority of personnel assigned to TAC (39 percent), SAC (20 percent), and USAFE (16 percent).

Thirty-seven percent of these cluster members are in their first enlistment. Overall, the cluster members average 4 years in the career field, 7 years TAFMS, and have an average paygrade of E-4. It is interesting to note that only 1 percent of these incumbents hold the former W-392XO AFSC.

Within the cluster, a small group of analysts was identified working at MAJCOM and Numbered Air Force levels. While analyzing and compiling aircraft and missile maintenance data from subordinate units, they also perform evaluative tasks such as writing staff studies and making staff assistance visits.

II. DATA BASE MANAGERS CLUSTER (GRP171, N=161). In contrast to the previous group of Aerospace Vehicle Maintenance Data Systems Analysts, these 391XO personnel (representing 8 percent of the survey sample) devote the majority (53 percent) of their job time to MMICS files maintenance (data base management) functions. Twenty-four percent hold the former W-392XO AFSC. Most are assigned at either the wing (67 percent) or squadron (19 percent) level, working in either a files maintenance or host files maintenance section. They perform an average of 50 tasks (as compared to an average of 33 tasks for the previous group), devoting 50 percent of their time to 27 tasks. These tasks include:

notify system users of status of unscheduled downtime for systems, such as MMICS coordinate system hardware problems or repair with DPI or users correct internal file errors verify computer inputs from users maintain systems advisory notice (SAN) files initiate delete history (DLH) procedures construct Air Force Online Data System (AFOLDS) inquiries initiate, prepare, or review difficulty reports (DIREPS)

As compared to the previous 391X0 group, these data base managers are slightly more experienced, averaging 5 years in the career field and 10 years TAFMS. Fifty-seven percent are qualified at the 5-skill level, while 39 percent are qualified at the 7-skill level. The majority (79 percent) are in their second or subsequent enlistment.

Three jobs were identified within the cluster. The largest consists of personnel who devote their time solely to aerospace vehicle data base management functions. A second smaller group of 27 personnel are assigned to

units where they perform both maintenance data systems analysis and data base management functions. The final group of 14 people are assigned to various Information Support Groups (ISG) under AFCC, performing data base management functions as they pertain to the reporting of Communications-Electronics (C-E) maintenance data. Along with performing the data base management tasks listed above, they also compile data for C-E maintenance summaries, prepare written narratives of C-E maintenance summaries, and prepare C-E studies.

III. MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS CLUSTER (GRP380, N=16). The majority (88 percent) of the personnel in this cluster are in the 391XO career ladder and are assigned to HQ Standard Systems Center, Gunter AFS AL. Their job differs from personnel in the previous 391XO clusters in that 67 percent of their job time is devoted to performing system analysis and design functions and files maintenance functions in support of the Maintenance Management Information and Control System (MMICS) and the Core Automated Maintenance System (CAMS). This includes managing the design, development, testing, and implementation of computer programs for these systems. Typical tasks performed include the following:

coordinate system development with computer programmers, functional managers, or other analysts analyze proposals or suggestions for system modifications review implementation of system modifications, changes, or conversions, such as monthly releases or systems advisory notices (SAN) evaluate data automation requirements or data automation proposals edit or test programs in systems other than MMICS initiate, prepare, or review difficulty reports (DIREPS)

These are relatively senior 391X0 personnel, averaging over 19 years TAFMS, 9 years in the career field, and reporting an average paygrade of E-7. Seventy-five percent of these analysts hold the former W-392X0 AFSC.

Within the cluster, two smaller jobs were identified, with personnel in one performing primarily system analysis and design functions, and personnel in the other adding data base management tasks to the system analysis and design responsibilities.

es alexandra assesses assesses lessoners are some an area consistent and assesses and assesses and assesses and

IV. <u>SPECIAL STUDIES ANALYSTS (GRP538, N=6)</u>. Personnel in this small group of predominantly SAC-assigned airmen (83 percent) are assigned to Special Studies sections at the wing, Numbered Air Force, and MAJCOM levels. As such, they reported working on a variety of special studies and projects, employing several different statistical techniques. Thirty-four percent of their job time is devoted to performing general calculations functions, such as calculating standard deviations; calculating means, medians, and modes; and calculating lines of regression, which differentiates them from the previous

clusters of 391XO personnel described. The majority (83 percent) of these incumbents are qualified at the 7-skill level, with an average paygrade of between E-5 and E-6.

V. HQ AFOTEC/USAFTAWC PERSONNEL (GRP435, N=5). While also devoting 34 percent of their duty time to performing general calculations and analysis functions (as in the previous group of Special Studies Analysts), this highly specialized group of 391XO personnel was brought together based on the performance of tasks dealing primarily with the computation and determination of information (23 percent of their job time). These tasks include:

calculate aircraft or missile equipment or systems reliability assemble data or records for computation of statistics, such as mean time between failure (MTBF) calculate mean time to restore (MTTR) equipment to operable status compute or determine aircraft or missile equipment capabilities or availabilities compute mean time between maintenance (MTBM) compute mean time between occurrence (MTBO) of downtime failure

Only 8 percent of their job time is devoted to actual aerospace vehicle data functions. Members at HQ AFOTEC reported (via write-in comments) serving as Logistics Analysis Managers. The focus of their efforts is toward providing assessments of the operational effectiveness and suitability of future weapon systems and support equipment for the Air Force. USAFTAWC personnel reported providing assessments of the reliability/maintainability (R/M) of weapons systems under acquisition by the Air Force.

These are relatively senior 391XO personnel, averaging 16 years in the career field and 19 years TAFMS. Their average paygrade is E-7 or E-8. Eighty percent are qualified at the 7-skill level.

VI. OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS (GRP230, N=10). The majority (90 percent) of these 391X0 personnel are assigned to a Test and Evaluation Squadron, where they are responsible for assessing the operational capability of new weapon systems. This assessment includes (but is not limited to) initial operational test and evaluation (IOTE) and follow-on test and evaluation (FOTE) functions. As with the previous group of HQ AFOTEC/USAFIAWC personnel, these analysts spend 25 percent of their job time computing and determining information, such as mean time between maintenance (MTBM), mean time between failure (MTBF), and mean time to restore (MTTR) equipment to operable status. Additionally, 16 percent of their job time (the highest of all 391X0 groups identified) is devoted to evaluative functions, such as compiling data to evaluate engineering changes, and evaluating source documents, such as TOs. Only 5 percent of their time is spent performing general

calculations and analysis functions. The majority (70 percent) of these personnel hold DAFSC 39170, with an average paygrade of E-6. They average 11 years in the career field and 14 years TAFMS.

VII. COMMUNICATIONS-ELECTRONICS (C-E) STAFF ANALYSTS (GRP192, N=17). The majority of these 17 analysts are assigned to both the MAJCOM and Numbered Air Force levels, and to the various HQ Information System Divisions under AFCC. They differ from the previous 391XO groups identified in that 33 percent of their job time is spent performing tasks related to C-E functions, with an additional 34 percent devoted to managerial, administrative, and quality evaluation functions. The majority of their work is accomplished in support of subordinate organizations, particularly in the area of C-E equipment status reporting. Typical tasks performed by the group include:

evaluate C-E equipment status reports
prepare ground C-E equipment status data reports
interpret policies, directives, or procedures for
subordinates
compile data for C-E maintenance summaries
make staff assistance visits
calculate C-E equipment reliability
review C-E inventory reports for accuracy

Seventy-seven percent of these personnel are qualified at the 7-skill level, with an average paygrade of E-6. They average 11 years in the career field, 13 years TAFMS, and 41 percent report some level of supervision.

AND SCHEDULING PERSONNEL CLUSTER (GRP206, VIII. PLANS cluster of 392X0 personnel (accounting for 26 percent of the survey sample) represents the largest single group identified in the career ladder structure. Fifty-six percent of the incumbents hold DAFSC 39250 and 35 percent report DAFSC 39270. These personnel devote 39 percent of their job time to planning and scheduling maintenance for aerospace vehicles and associated equipment. This includes tasks such as preparing daily, weekly, and monthly maintenance schedules; adjusting schedules to meet emergency or priority maintenance requirements; distributing maintenance plans or schedules; conducting or attending maintenance planning meetings; scheduling accomplishment of TCTOs; and scheduling replacement of time change items. Overall, they perform an average of 65 tasks (the highest of all 392XO groups identified), with 37 tasks accounting for 50 percent of their job time. The majority report working in either a Plans/Scheduling or Plans/Scheduling/Documentation section. and are assigned primarily at the wing (35 percent) and squadron (60 percent) levels. Across the group as a whole, several members identified themselves as MCOICs of either the Plans/Scheduling or Plans/Scheduling/Documentation section, suggesting that many senior NCOs in the career ladder perform a variety of maintenance scheduling technical tasks in addition to their supervisory responsibilities.

Three jobs were identified within the cluster, with differences between the jobs based on the type of equipment being scheduled for maintenance. Personnel in the largest job (accounting for 376 AFSC 392XO personnel) plan and schedule aircraft maintenance. Distinctions within this job were noted based on the schedulers being assigned under either a centralized or decentralized maintenance concept. Those working under a centralized maintenance concept devoted the majority of their time to planning and scheduling mainterance, while those working under a decentralized maintenance concept devoted approximately one-third of their time to documentation functions in addition to their planning and scheduling responsibilities. This reflects the fact that under a centralized maintenance concept, Plans/Scheduling is a separate section from Documentation, while these sections are combined under a decen-A large number of those schedulers working tralized maintenance concept. under the decentralized concept were working in Aircraft Maintenance Units (AMU). Schedulers in the two smaller jobs plan and schedule maintenance for either munitions or aerospace ground equipment.

Forty-one percent of these cluster members are in their first enlistment. Overall, the cluster members average 5 years in the career field, 9 years TAFMS, and have an average paygrade of E-4 or E-5.

IX. TIME CHANGE MONITORS (GRP420, N=36). This group of primarily 392X0 airmen are assigned at both the wing and squadron levels, and are responsible for loading, updating, forecasting, and scheduling time change requirements for assigned equipment. Sixty-four percent of their job time is devoted to documentation functions, as opposed to only 27 percent for the previous group of Plans and Scheduling personnel. The majority report working in either the Documentation section of a wing or squadron, or in a Consolidated Engine Management Branch. As compared to other 392%0 jobs identified in the career ladder structure, their job is somewhat limited in scope. On the average, they perform only 18 tasks (the smallest of all groups identified), 10 cf which account for approximately 50 percent of their time. Some of these tasks include:

initiate time change actions
forecast inspection or time change requirements
using remote devices
update inspection or time change requirements using
remote devices
load initial inspection or time change requirements
into system records
schedule replacement of time change items

Sixty-seven percent of these airmen are in their first enlistment, with an average paygrade of E-3 or E-4. With only 3 years in the career field and 4-1/2 years TAFMS, they are also the least experienced of all 392XO personnel identified. The majority (69 percent) are qualified at the 5-skill level; 22 percent are qualified at the 3-skill level.

X. TCTO MONITORS (GRP396, N=62). As in the previous group of Time Change Monitors, the majority (97 percent) of these 392XO personnel are assigned to both the wing and squadron levels and perform primarily a documentation function. Specifically, they are responsible for monitoring, scheduling, and controlling either aircraft or engine TCTOs. Fifty percent of their job time is spent performing 11 tasks, including the following:

update TCTO status changes or reports review TCTO status reports update TCTO status information using remote devices load TCTO requirements into computer records participate in monthly TCTO kit reconciliation meetings schedule accomplishment of TCTOs

Their job is somewhat broader in scope than that of the Time Change Monitors (an average of 27 tasks are performed versus 18) and they are slightly more experienced. Members average 6 years TAFMS, 4 years in the career field, and 47 percent are in their second or subsequent enlistment. The majority (74 percent) are qualified at the 5-skill level.

- XI. CONSOLIDATED ENGINE MANAGEMENT SYSTEM (CEMS) DOCUMENTATION PERSONNEL (GPP453, N=85). These 392XO personnel, like the Time Change Monitors and TCTO Monitors just discussed, also perform tasks related to a documentation function, yet differ in that the majority are assigned to a Consolidated Engine Management Branch. As such, they perform all of the tasks encompassed by the Time Change and TCTO Monitor groups as they apply to engine management. Several incumbents indicated (via write-in comments) performing tasks such as setting up engine record jackets, maintaining engine status in MMICS, and scheduling various engine inspections. Overall, their job is broader in scope (an average of 42 tasks are performed) and their experience level is higher than personnel in the previous two jobs. Sixty-nine percent are qualified at the 5-skill level, 25 percent are qualified at the 7-skill level, with 62 percent in their second or subsequent enlistment. Additionally, these personnel average over 8 years TAFMS and hold an average paygrade of E-4 or E-5.
- XII. PRODUCTION CONTROL PERSONNEL CLUSTER (GRP130, N=218). This cluster of predominantly 392XO personnel represents 10 percent of the total survey sample and is the second largest group of 392XO personnel identified in the career ladder structure. In contrast to the planning, scheduling, and documentation functions represented by the previous groups of 392XO personnel, these incumbents devote 62 percent of their job time to tasks pertaining to production control activities. Overall, this includes acting as the central point for controlling, scheduling, and routing all reparable parts between base supply and the maintenance shops, thus controlling all in-shop, off-equipment maintenance. Of the average 35 tasks performed by the group, typical ones include:

make entries on AFTO Forms 350 (Reparable Item Processing Tag) reconcile due in from maintenance (DIFM) lists, such as R-26 reports assign job control numbers to unscheduled maintenance jobs coordinate DIFM processing actions with units of supply schedule calibration or maintenance of precision measurement equipment (PME) assign priorities for shop repair or fabrication identify PME items make in-progress work checks

The majority of these personnel are assigned to SAC, MAC, and ATC, working primarily at the wing (33 percent) and squadron (62 percent) levels. Fifty-seven percent hold DAFSC 39250 and 29 percent report DAFSC 39270. Almost half (45 percent) are in their first enlistment. These personnel average 5 years in the career field and 9 years TAFMS, with an average paygrade of E-4 or E-5.

Within the cluster, three jobs were identified. While two of the jobs differ based on the type of maintenance the members deal with (aerospace vehicle versus PME), the third is composed of more senior personnel who serve as NCOICs of a Production Control shop, performing both technical and supervisory responsibilities.

Finally, it is interesting to note that all references to production control activities (with the exception of PME responsibilities) have been deleted from the AFR 39-1 Specialty Descriptions for the 392XO career ladder, as of 30 April 1987. Since Production Control personnel represent approximately 16 to 20 percent of all 392XO personnel surveyed between December 1985 and April 1986, career field managers will need to ensure that appropriate steps are taken to effect a smooth transition of these personnel into other facets of the career ladder.

- XIII. MAJCOM AEROSPACE VEHICLE DISTRIBUTION OFFICERS (AVDO) (GRP472, N=5). These very experienced personnel (averaging over 13 years in the career field, with an average paygrade of E-7 or E-8), are predominantly 392XO airmen. They are assigned at the MAJCOM level and are responsible for ensuring the integrity of the Aerospace Vehicle and Equipment Inventory, Status, and Utilization Reporting System (AVISURS). This includes assigning and distributing command vehicles based on MAJCOM authorizations, reviewing vehicle status reports from subordinate units for accuracy, and reviewing the vehicle utilization reported by subordinate units for accuracy. In addition, they devote over 25 percent of their duty time to various management functions, such as making staff assistance visits; drafting correspondence; and interpreting policies, directives, or procedures for subordinates.
- XIV. TECHNICAL TRAINING INSTRUCTORS (GRP178, N=23). This independent jeb type includes both 391XO (43 percent) and 392XO (57 percent) personnel who teach entry-level, as well as advanced career ladder courses at Chanute AFB

IL. While performing many of the technical tasks associated with their respective career ladders, they also perform a series of tasks unique to the classroom setting. These tasks include:

corduct resident course classroom training administer or score tests counsel trainees on training progress or problems develop course curricula or plans of instruction (POI) write tests, other than specialty knowledge tests (SKT)

These personnel average over 11 years TAFMS. Ninety-six percent are qualified at the 5- or 7-skill levels.

XV. <u>SUPERVISORS/MANAGERS CLUSTER (GRP154, N=333)</u>. This cluster of 333 airmen represents 16 percent of the survey sample. Sixty percent of the group hold the 7-skill level (39 percent 391XO and 21 percent 392XO), with 21 percent performing at the 9-skill or CEM Code levels. Averaging over 16 years TAFMS, 87 percent of these personnel report supervising an average of four personnel. Fifty-six percent of their duty time is devoted to supervisory, managerial, training, administrative, and quality evaluation functions. Representative tasks of the average 81 tasks performed by this group include:

prepare airmen performance reports
interpret policies, directives, or procedures for
subordinates
direct development or maintenance of status boards,
graphs, or charts
advise chief of maintenance on equipment maintenance
or utilization
establish work procedures
write staff studies, surveys, or special reports,
excluding training reports
evaluate compliance with work standards

Included in this cluster were five jobs--three focusing on 391%0 responsibilities, one focusing on 392%0 responsibilities, and the final representing 9-skill level and CEM Code personnel from both AFSCs. Those personnel holding AFSC 391%0 were primarily supervising personnel in either Maintenance Data Systems Analysis or Data Base Management Branches, or were working as first-line supervisors within a Maintenance Data Systems Analysis Branch. The majority of AFSC 392%0 personnel were functioning as NCOICs of either Plans/Scheduling/Documentation, Plans/Scheduling, or Documentation, or as NCOICs of a Consolidated Engine Management Branch.

Comparison of Specialty Jobs

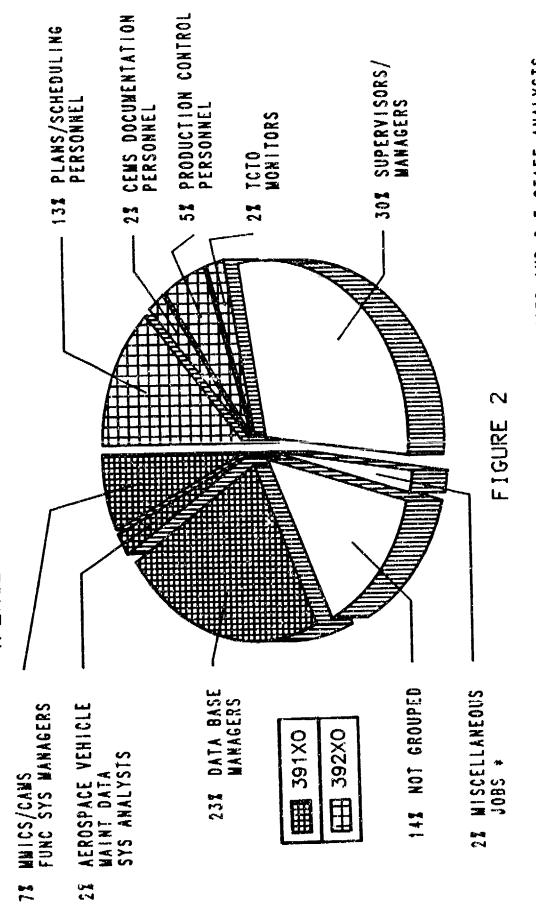
Six clusters and nine independent job types were identified in the career ladder structure analysis. Five clusters and eight of the independent job types were clearly AFSC-specific, with members performing technical duties characteristic of the career ladders involved. The remaining cluster and independent job type represented a combination of both 391XO and 392XO personnel working in either supervisory/managerial or technical training positions. Since these latter groups account for only 17 percent of the survey sample, it is clear that the vast majority of sample members are involved in jobs keyed to their specific AFSC. Moreover, with virtually no everlap in technical duties and functions between 391XO and 392XO career ladder members, survey data support the current classification structure.

Utilization of Former AFSC W-392XO Personnel

The main reason for including both 391XO and 392XO personnel in this survey was to assess the current utilization of former AFSC N-392XO (MMICS files maintenance) personnel. With the October 1982 restructuring of the 39XXX career field, files maintenance (data base management) functions were deleted from the 392XO career ladder and absorbed by the 391XO career ladder. Current utilization of these personnel can be assessed both by determining their distribution across the specialty jobs outlined in this report and by looking at their current DAFSCs. Overall, a high percentage of former N-392XO personnel working in jobs performed primarily by 391XO personnel or reporting a 391XO DAFSC would be a good indication that former N-392XO personnel have indeed transitioned into the 391XO career ladder.

Of the 2,110 respondents to the survey, 165 reported holding the former W-392XO AFSC. Distribution of these personnel across career ladder specialty jobs is displayed in Figure 2. The majority (30 percent) of these personnel grouped into the SUPERVISORS/MANAGERS cluster, a job representing both 391X0 and 392XO personnel. Twenty-three percent grouped together as DATA BASE MANAGERS (the job most closely paralleling the work of former W-397XO personnel), while an additional 10 percent fell into smaller jobs specific to the 391XO career ladder (MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS, AEROSPACE VEHCILE MAINTENANCE DATA SYSTEMS ANALYSIS, SPECIAL STUDIES ANALYSIS, AND C-E STAFF AMALYSTS). Fourteen percent did not group into any of the jobs identi-The remaining 23 percent fell into jobs composed primarily of 392X0 personnel, with the majority (13 percent) grouping together as PLANS AND SCHEDULING PERSONNEL. In terms of their current DAFSCs, the majority (59 percent) reported a 391XC DAFSC, while the remaining 41 percent reported a 392XC DAFSC. Thus, while it appears that the majority of former AFSC W-392XO personnel have transferred to the 391XO career ladder, a substantial number are still working in traditional 392XO jobs and are reporting a 352XO DAFSC. As such, career field managers should closely review the current utilization of these personnel.

DISTRIBUTION OF FORMER AFSC W-392X0 PERSONNEL (PERCENT MEMBERS PERFORMING) ACROSS SPECIALTY JOB GROUPS



MISCELLANEOUS JOBS INCLUDE 391XO SPECIAL STUDIES ANALYSTS AND C-E STAFF ANALYSTS--392XO TIME CHANGE MONITORS AND MAJCOM AVDOS--AND TECHNICAL TRAINING INSTRUCTORS.

Comparison of Current Survey To Previous Survey Specialty Job Structure

The specialty job structure identified in this survey was compared to those of the last occupational surveys of the 391XO and 392XO career ladders, published in October 1979 (AFPT 90-391-380) and October 1978 (AFPT 90-392-334), respectively. A comparison of the specialty jobs identified in each survey is shown in Table 4. Overall, only minor variations were noted in the jobs performed by current and previous survey respondents, thus reflecting two relatively stable career ladders.

Looking first at the 39XXX career field as a whole, one effect of the October 1982 restructuring of the career field is evident. Specifically, files maintenance (data base management) functions performed by former AFSC W-392XO personnel are now performed primarily by 391XO personnel working as DATA BASE MANAGERS and MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS. This is consistent with the 391XO career ladder absorbing these responsibilities as part of the restructuring effort. As mentioned in the previous section, however, while the <u>functions</u> performed by former AFSC W-392XO personnel are now performed primarily by 391XO personnel, a substantial number of former W-392XO personnel have remained in the 392XO career ladder versus transitioning into the 391XO career ladder.

Within the 391XO career ladder, two small groups identified in the 1987 survey were not addressed in the 1979 survey (HQ AFOTEC/USAFTAWC PERSONNEL and OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS). Although these personnel responded to the 1979 survey, they were dispersed throughout the identified job groups and did not form distinct groups of their own. Also, a group of LOGISTICS CENTER PRODUCTION ANALYSTS addressed in the 1979 survey were not found in the 1987 survey, as the function performed by these analysts is now accomplished primarily by civilian personnel. Additionally, the CEM PRODUC-TION ANALYSTS identified in the 1979 survey included a large group of analysts working at the squadron and group levels, together with those analysts working at MAJCOM (staff-level) positions. In the current survey, the only C-E personnel working at the squadron level were those performing primarily a files maintenance (data base management) function, with actual C-E maintenance data systems analysis consuming only a small portion of their time. Consequently, they grouped together as a job type within the DATA BASE MANAGERS cluster. All C-E analysts identified in the current survey were located at the MAJCOM and Numbered AF levels, and at the various HQ Information System Divisions This redistribution of C-E personnel reflects a decision by HQ under AFCC. AFCC to delete C-E analyst positions from the squadron level (except for those individuals needed to perform C-E data base management functions), thus making MAJCOM (and equivalent level) personnel responsible for performing C-E maintenance data systems analysis for their respective units.

Within the 392XO career ladder, two groups identified in the 1987 survey were not addressed in the 1978 survey (CONSOLIDATED ENGINE MANAGEMENT SYSTEM (CEMS) DOCUMENTATION PERSONNEL and MAJCOM AEROSPACE VEHICLE DISTRIBUTION OFFICERS (AVDO)). First, in the case of the CEMS DOCUMENTATION PERSONNEL, the CEMS concept began to take on increased importance within the 392XO career ladder in 1982, thus explaining the absence of this group of personnel in the

<u>AMARA BARA ABARA MANAKATAN MANAKATAN MANAKATAN MANAKATAN MANAKATAN MANAKATAN MANAKATAN MANAKATAN MANAKATAN MA</u>

TABLE 4

COMPARISON OF CAREER LADDER STRUCTURE GROUPS FOR CURRENT AND PREVIOUS SURVEYS

1987 CLUSTERS AND INDEPENDENT JOB TYPES	AFSC 391X0A/B 1979 CLUSTERS AND INDEPENDENT JOB TYPES
AERCSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS SFECIAL STUDIES ANALYSTS	AEROSPACE VEHICLE PRODUCTION ANALYSTS
НО AFOTEC/USAFTAWC PERSONNEL	NOT IDENTIFIED AS A SPECIFIC JOB GROUP
OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS	NOT IDENTIFIED AS A SPECIFIC JOB GROUP
C-E STAFF ANALYSTS	CEM PRODUCTION ANALYSTS
NOT IDENTIFIED AS A SPECIFIC JOB GROUP	LOGISTICS CENTER PRGDUCTION ANALYSTS
	AFSC 392XO 1978 CLUSTERS AND INDEPENDENT JOB TYPES
PLANS AND SCHEDULING PERSONNEL	PLANS AND SCHEDULING PERSONNEL
TIME CHANGE MONITORS TCTO MONITORS	DOCUMENTATION PERSONNEL
CEMS DOCUMENTATION PERSONNEL	NOT IDENTIFIED AS A SPECIFIC JOB GROUP
PRODUCTION CONTROL PERSONNEL	PRODUCTION CONTROL PERSONNEL

TABLE 4 (CONTINUED)

COMPARISON OF CAREER LADDER STRUCTURE GROUPS FOR CURRENT AND PREVIOUS SURVEYS

AFSC 392X0 1978 CLUSTERS AND INDEPENDENT JOB TYPES

NOT IDENTIFIED AS A SPECIFIC JOB GROUP

FILES MAINTENANCE PERSONNEL*

1979 391X0A/B OR 1978 392X0 SURVEYS NOT IDENTIFIED AS A SPECIFIC JOB GROUP IN EITHER THE

1979 391X0A/B OR 1978 392X0 SURVEYS NOT IDENTIFIED AS A SPECIFIC JOB GROUP IN EITHER THE

TECHNICAL TRAINING INSTRUCTORS

* With the October 1982 restructuring of the 39XXX career field, former AFSC W-392XO MMICS files maintenance functions were absorbed into the 391XO career ladder

MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS*

DATA BASE MANAGERS*

PIJCON AVDOS

SUPERVISORS/MANAGERS

1978 survey of the career ladder. Secondly, although MAJCOM AVDOs responded to the 1978 survey, they were dispersed thoughout the identified job groups and did not form a distinct group of their own.

Finally, a group of SUPERVISORS/MANAGERS and TECHNICAL TRAINING INSTRUCTORS identified in the 1987 survey were not specifically addressed in either the former 391X0A/B or 392X0 surveys. An examination of the clusters found within these surveys revealed that the majority of supervisory personnel responding to the surveys were also performing a large number of technical tasks; thus, they formed technical/supervisory-type jobs within the overall clusters themselves. Those technical training personnel responding to the former surveys were dispersed throughout the identified jcb groups and did not form distinct groups of their own.

Summary

In summary, this analysis supports the current career field structure. The majority of 391XO and 392XO personnel are engaged in jobs specific to their respective career ladders, with the remainder performing either supervisory/mangerial or technical training functions. In terms of the utilization of former AFSC W-392XO personnel, while the majority appear to have transitioned into the 391XO career ladder, a fairly substantial number are still working in jobs specific to the 392XO career ladder and are reporting a 392XO DAFSC. Utilization of these personnel should be reviewed by career field managers.

SECTION II

ANALYSIS OF 391XO DAFSC GROUPS

An analysis of DAFSC groups, together with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as AFR 39-1 Specialty Descriptions and the Specialty Training Standard (STS), reflect what career ladder personnel are actually doing in the field.

A comparison of the duty and task performance between DAFSCs 39130 and 39150 indicated that, while there are some minor differences, by and large, the jobs they perform are essentially the same. Therefore, they will be discussed as a combined group in this report. Similarly, DAFSC 39190 and CEM Code 39100 have also been combined for reporting purposes.

The distribution of 391XO skill-level groups across career ladder jobs is displayed in Table 5, while Table 6 offers another perspective by displaying the relative percent time spent on each duty across the skill-level groups.

TABLE 5

DISTRIBUTION OF 391X0 DAFSC GROUPS ACROSS CAREER LADDER JOBS (PERCENT MEMDERS)*

CAREER	CAREER LADDER JOBS	DAFSC 39130/50 (N=432)	DAFSC 39170 (N=300)	DAFSC 39190/CEM CODE (N=50)
H	AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS (N=210)	39	10	12
II.	DATA BASE MANAGERS (N=161)	22	21	2
111.	MP.CS/CAMS FUNCTIONAL SYSTEMS MANAGERS (N=16)	*	က	ω
IV.	SPECIAL STUDIES ANALYSTS (N=6)	* *	_	2
٧.	HQ AFOTEC/USAFTAWC PERSONNEL (N=5)	0	_	61
VI.	OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS (N=10)	*	67	2
VII.	C-E STAFF ANA V 7S (N=17)	**	\$	0
VIII.	PLANS AND SCHEDULING PERSONNEL (N=560)	0	0	0
IX.	TIME CHANGE MONITORS (N=36)	*	0	0
×	TCTO MONITORS (N=62)	0	0	0
XI.	CEMS DOCUMENTATION PERSONNEL (N=85)	0	0	0
XII.	PRODUCTION CONTROL PERSONNEL (N=218)	**	* *	0
XIII.	MAJCOM AVDOS (N=5)	Û	* *	0
XIV.	TECHNICAL TRAINING INSTRUCTORS (N=23)	**	2	0
XV.	SUPERVISORS/MANAGERS (N=333)	12	43	62
	NOT GROUPED	23	11	12

^{*} Columns may not add to 100 percent due to rounding ** Less than 1 percent

TABLE 6

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY 391X0 DAFSC GROUPS

DUTIES	DAFSC 39130/50 (N=432)	DAFSC 39170 (N=300)	DAFSC 39190/CEM CODE (N=50)
A. ORGANIZING AND PLANNING B. DIRECTING AND IMPLEMENTING C. INSPECTING AND EVALUATING D. TRAINING E. PREPORTS F. PERFORMING, UPDATING, AND FILING FORMS, RECORDS, AND REPORTS G. PERFORMING AEROSPACE VEHICLE DATA FUNCTIONS G. PERFORMING COMMUNICATIONS ELECTRONIC METEOROLOGICAL (CEM) FUNCTIONS H. PERFORMING GENERAL CALCULATIONS AND ANALYSIS FUNCTIONS I. PERFORMING FILES MAINTENANCE FUNCTIONS K. MAINTAINING MAINTENANCE DOCUMENTATION AND RECORDS L. PLANNING AND SCHEDULING MAINTENANCE M. COMPUTING AND DETERMINING INFORMATION N. MANAGING AND UPDATING AUTOMATED MAINTENANCE RECORDS O. PROCESSING SHOP WORK	8048 50 27 8048 40 8048 80 8048 80 804	ကန်ာအက စည်း မဟုတ်နှင့် မလေးများ	27. 21. 21. 21. 21. 21. 21. 21. 21. 21. 21
P. CONTROLLING MAINTENANCE Q. PERFORMING MOBILITY SUPPORT FUNCTIONS	* *	* *	* *

* Less than I percent

In general, a typical pattern of progression is present, with personnel spending more of their time on duties involving supervisory and managerial tasks (Duties A, B, and C) as they move upward to the 9-skill and CEM Code levels (see Table 6). It is also evident, though, that 7-skill level and, to some extent, 9-skill level/CEM Code personnel are still involved with technical task performance, as will be pointed out in the specific skill level descriptions below.

Skill Level Descriptions

DAFSCs 39130/50. The 432 airmen in the 3- and 5-skill level group (representing 54 percent of all 391X0 personnel surveyed) perform an average of 38 tasks, with 52 tasks accounting for approximately 50 percent of their job time. Overall, there appears to be a great deal of diversity in the jobs performed by these personnel. This can first be seen in Table 7, which lists representative tasks performed by these personnel. Only two tasks were performed by over 50 percent of the group, with only 55 percent performing the most commonly performed task. This suggests very little commonality among jobs held by these incumbents. The diversity of the group can also be seen in the distribution of these DAFSC members across career ladder jobs (Table 5). First of all, the majority of these personnel fell into three major jobs: AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS (39 percent), DATA BASE MANAGERS (22 percent), and SUPERVISORS/MANAGERS (12 percent). While on the surface, this small number of jobs does not suggest a great deal of diversity, a closer look reveals that the diversity is a function of the make-up of the individual jobs themselves. For example, as pointed out earlier in the SPECIALTY JOBS section of this report, a high degree of diversity was noted within the AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS job. Although the majority of the members followed essentially the same analysis process, their everyday taskings were dependent on the needs of the particular squadron or wing to which they were assigned. Since the majority (39 percent) of DAFSC 39130/50 personnel were included in the cluster, this helps to explain the diversity of the group as a whole. Finally, Table 5 also indicates that 23 percent of these personnel did not group in any of the jobs identified, again suggesting a great deal of diversity in the jobs performed by these members.

DAFSC 39170. At the 7-skill level, the degree of diversity noted at the lower skill levels begins to taper off and the job broadens with the addition of supervisory responsibilities to technical task performance. While 64 percent of the group report supervisory responsibilities (an average of three personnel are supervised), only 43 percent of their job time is spent performing tasks in the usual supervisory, managerial, training, and administrative duties (see Table 6, Duties A through E). Further, while 43 percent of these personnel are found in the SUPERVISORS/MANAGERS job group identified in the SPECIALTY JOBS section of this report, an equal percentage are distributed throughout the more technical jobs found in the career ladder, with the majority serving as DATA BASE MANAGERS (see Table 5). It is interesting to note that, while the percentage of 7-skill level personnel serving as AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS drops from 39 to 10 percent from the 3- and 5-skill levels, the percentage serving as DATA BASE

TABLE 7

REPRESENTATIVE TASKS PERFORMED BY DAFSC 39130 AND 39150 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 39130/50 (N=432)
N454		55
F 147		51
F 165		48
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,	
	OR CHARTS	48
K3€3		47
F168		41
	COMPILE AIRCRAFT SCHEDULING EFFECTIVENESS DATA	39
F 182		
	TRENDS OR PROBLEMS	39
	ASSEMBLE DATA OR RECORDS FOR MAINTENANCE SUMMARIES	38
F172	· · · · · · · · · · · · · · · · · · ·	
700 <i>c</i>	SUMMARIES	37
1326		25
F304	SYSTEMS, SUCH AS MMICS	36
E134		35
1305		35
K368	REVIEW OR SPOT CHECK MAINTENANCE DATA COLLECTION (MDC)	() A
076	SOURCE DOCUMENTS FOR ACCURACY	34
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, EXCLUDING	24
- 300	TRAINING REPORTS	34
E120		33 3 3
K351		33
I306	COORDINATE COMPUTER TIME WITH DATA PROCESSING INSTALLATIONS (DPI) OR COMPUTER ROOMS	31
T200	COORDINATE SYSTEM HARDWARE PROBLEMS OR REPAIR WITH DPI OR	Ş١
1309	USERS	30
E116		30
I321		30
1321	SUCH AS EXTENDED DOWNTIME PROCEDURES	27
B 19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	21
D : 9	UTILIZATION	27
Ello	PREPARE AIRCRAFT MISSION ANALYSIS REPORTS	2.7 26
	MAINTAIN SYSTEMS ADVISORY NOTICE (SAN) FILES	26 26
M421	ACCEMBLE DATA OF RECORDS FOR COMPHITATION OF STATISTICS	20
1176 1	PREPARE DISCREPANCIES PER SORTIE REPORTS ASSEMBLE DATA OR RECORDS FOR COMPUTATION OF STATISTICS, SUCH AS MEAN TIME BETWEEN FAILURE (MTBF)	24
	JOUN NO MENN TAME DETREEN TAKEONE THIRTT	47

MANAGERS drops only 1 percentage point. A review of tasks commonly performed by the group (see Table 8) reveals that over 50 percent of these personnel are involved in both supervisory and technical task performance. Thus, while Tables 5, 6, and 8 clearly show 7-skill level personnel are engaged in supervisory responsibilities, they also show the range of the job, in that these personnel are also technicians, performing a wide variety of maintenance data systems analysis technical tasks. To further highlight this dual technical/ supervisory involvment, Table 9 lists representative task differences between DAFSC 39130/50 and 39170 personnel. While the difference between the skill levels is minimal in terms of technical task performance, career ladder progression is evident, as seen in the substantial percentage increases in supervisory tasks performed by the 7-skill level group.

DAFSCs 39190/CEM Code. The degree of diversity noted at the 3- and 5-skill levels essentially disappears at this level of performance, with supervisory, managerial, and evaluative responsibilities comprising the majority (57 percent) of these incumbent's job time (see Table 6). supervisory responsibilities clearly dominate, these 9-skill and CEM Code level personnel are still somewhat involved in technical task performance, as seen in Tables 5 and 10. Table 5 indicates that 26 percent of the group is distributed across the more technical jobs within the career ladder, with the majority serving as AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS or MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS. (Only 2 percent are found in the DATA BASE MANAGERS job group, as opposed to 21 percent at the 7-skill level). Further, while Table 10 (which lists representative tasks performed by the group) clearly reveals a high degree of supervisory, managerial, evaluative involvment, it also shows as many as 42 percent performing more technical tasks such as preparing written narratives on aircraft maintenance summaries and reviewing full mission capable rates (FMCR) for developing trends or problems. Overall, though, career ladder progression is clearly evident. The major difference between the job performed at this level and the 7-skill level seems to be an increased emphasis on supervisory, managerial, and evaluative tasks, together with a markedly decreased emphasis on data base management responsibilities (see Table 11).

Summary

Career ladder progression is evident, with supervisory responsibilities becoming more prominent at the 7-skill, 9-skill, and CEM Code levels. Correspondingly, technical responsibilities become less prominent, but are still evident as high as the 9-skill and CEM Code levels. Low numbers of tasks performed by over 50 percent of the 3- and 5-skill level group and the diversity of the AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS job suggest a great deal of diversity for this career ladder group. The degree of diversity in the jobs performed, however, tapers off as career ladder members move into higher skill-levels within the ladder.

REPRESENTATIVE TASKS PERFORMED BY DAFSC 39170 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 39170 (N=300)
B26 B21	DRAFT CORRESPONDENCE COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	79
. .	PROBLEMS	64
C73	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	63
B23		
	OR CHARTS	61
B35	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	61
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, EXCLUDING	
	TRAINING REPORTS	58
N454	OPEN OR CLOSE REMOTE DEVICES	56
B19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	
	UTILIZATION	5 5
	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS	54
	PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS	53
B47	SUPERVISE MATHIENANCE SYSTEMS ANALYSIS SPECIALISTS	
	(AFSC 39150)	52
F147	COMPILE DATA FOR AIRCRAFT SUMMARIES	48
	CONSTRUCT AIR FORCE ONLINE DATA SYSTEM (AFOLDS) INQUIRIES	
F168		45
	PREPARE AF FORMS 2422 (MAINTENANCE ANALYSIS REFERRAL)	44
F182	REVIEW FULL MISSION CAPABLE RATES (FMCR) FOR DEVELOPING	
_	TRENDS OR PROBLEMS	43
1306		
	(DPI) OR COMPUTER ROOMS	43
1309		
	USERS	43
F 172		• •
	SUMMARIES	42
	MAINTAIN SYSTEMS ADVISORY NOTICE (SAN) FILES	42
	CONDUCT OJT	42
E 134	PREPARE MAINTENANCE DATA COLLECTION REPORTS	41
	ASSEMBLE DATA OR RECORDS FOR MAINTENANCE SUMMARIES	38
K363	PREPARE MAINTENANCE SUMMARIES	37
1320	INITIATE, PREPARE, OR REVIEW DIFFICULTY REPORTS (DIREP)	35
	COORDINATE RECOVERY PROCEDURES WITH DPI OR USERS	35
1311		34
1310	COORDINATE WITH FUNCTIONAL MANAGERS TO ENSURE SYSTEM MANAGEMENT INTEGRITY	34
T O O A	VERIFY COMPUTER INPUTS FROM USERS	34 34
	ASSEMBLE DATA OR RECORDS FOR COMPUTATION OF STATISTICS. SUCH	34
P142 (AS MEAN TIME BETWEEN FAILURE (MTBF)	33
F162	FVALUATE AEROSPACE VEHICLE EQUIPMENT STATUS DATA	33

TABLE 9

REPRESENTATIVE TASK DIFFERENCES BETWEEN DAFSC 39130/50 AND DAFSC 39170 PERSONNEL (PERCENT MEMBERS PERFORMING)

REPRESENTATIVE TASKS PERFORMED BY DAFSC 39190 AND CEM CODE PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 39190/ CEM CODE (N=50)
B26	DRAFT CORRESPONDENCE	100
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
205	EXCLUDING TRAINING REPORTS	90
B35	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	70
B21	SUBORDINATES COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	78
DZ 1	PROBLEMS	74
C73		74
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,	,
	OR CHARTS	68
A10	PLAN UR SCHEDULE WORK ASSIGNMENTS	68
Αl	ASSIGN PERSONNEL TO DUTY POSITIONS	68
A7	ESTABLISH WORK PRIORITIES	66
B22	DEVELOP WORK METHODS OR PROCEDURES	66
A12	PREPARE JOB DESCRIPTIONS	66
F168	PREPARE AIRCRAFT STUDIES OR BRIEFINGS	64
B49	SUPERVISE MAINTENANCE SYSTEMS ANALYSIS TECHNICIANS	<i>c</i>
A 1 E	(AFSC 39170)	64
A 15 B 19	SCHEDULE LEAVES OR PASSES ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	62
D 13	UTILIZATION	58
C6 8	EVALUATE SUGGESTIONS	58
C51	ANALYZE WORKLOAD REQUIREMENTS	5 8
E27	DRAFT OR REVISE JOB DESCRIPTIONS	5 8
C72	MAKE STAFF ASSISTANCE VISITS	56
C63	EVALUATE PERSONNEL ASSIGNMENTS	56
A13	PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS	56
C60	EVALUATE INSPECTION REPORTS OR PROCEDURES	54
C55	EVALUATE COMPLIANCE WITH WORK STANDARDS	52
F 150		50
F 165	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA	48
F 172	PREPARE WRITTEN NARRATIVES ON AIRCRAFT MAINTENANCE	4.0
1225	SUMMARIES ANALYZE PROPOSALS OF SUCCESTIONS FOR SYSTEM MODIFICATIONS	46
J335 B50	ANALYZE PROPOSALS OR SUGGESTIONS FOR SYSTEM MODIFICATIONS SUPERVISE MILITARY PERSONNEL WITH AFSC OTHER THAN 391XO OR	44
DOU	392X0	44
J338	COORDINATE SYSTEM DEVELOPMENT OR DESIGN WITH COMPUTER	44
5500	PROGRAMMERS, FUNCTIONAL MANAGERS, OR OTHER ANALYSTS	42
F 182	REVIEW FULL MISSION CAPABLE RATES (FMCR) FOR DEVELOPING	→ 4
	TRENDS OR PROBLEMS	42

TABLE 11

REPRESENTATIVE TASK DIFFERENCES BETWEEN DAFSC 39170 AND DAFSC 39190/CEM CODE PERSONNEL (PERCENT MEMBERS PERFORMING)

ANALYSIS OF 391XO AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data by skill level were compared to the AFR 39-1 Specialty Descriptions for the Maintenance Data Systems Analysis Specialist, Technician, and Superintendent (39130/50, 39170, and 39190/CEM Code, respectively), all dated 30 April 1986. These descriptions are intended to give a broad overview of the duties and tasks performed in each skill level of the specialty.

Both the 3- and 5-skill level and 7-skill level descriptions accurately reflect the full range of duties and responsibilities performed by personnel at these levels. The 9-skill and CEM Code level description also appears complete, accurately portraying the full range of managerial as well as technical duties performed by these personnel.

391XO TRAINING ANALYSIS

Occupational survey data provide one of the many sources of information which can be used to assist in the development of a training program relevant to the needs of personnel in their first-enlistment. Specifically, the primary factor used to review training programs is the percent of first-enlistment (1-48 months TAFMS) personnel performing specific tasks. Other considerations in training decisions include the overall description of the job being performed by first-enlistment personnel and their overall distribution across career ladder jobs, training emphasis and task difficulty ratings (previously explained in the SURVEY METHODOLOGY section of this report), subject-matter expert input, and the availability of training equipment or instructors. Normally, the percent of first-job (1-24 months TAFMS) personnel performing specific tasks would also be considered; however, these data were not used due to the low number of 391XO first-job personnel responding to the survey (N=15).

This training analysis reviews the current Specialty Training Standard (STS) and Tentative Plan of Instruction (POI) for the 391XO career ladder. Technical school personnel from Chanute Technical Training Center matched tasks from the job inventory to corresponding sections of the STS and Tentative POI for Course 3ABR39130 001. Occupational survey data for the matched tasks were then used to assess the appropriateness of the various items in the training documents. A complete computer listing displaying the percent members performing tasks, training emphasis and task difficulty ratings for each task, along with the STS and POI matchings, has been forwarded to the technical school for their use in further detailed reviews of the training documents. A summary of this information is presented below.

Training Emphasis and Task Difficulty Data

Training emphasis (TE) and task difficulty (TD) data are secondary factors that can assist technical school personnel in deciding what tasks should be emphasized in entry-level training. These ratings, based on the

judgments of senior career ladder NCOs, are collected to provide training personnel with a rank-ordering of those tasks considered important for firstterm airman training (TE), along with a measure of how difficult those tasks are to learn (TD). When combined with data on the percentages of firstenlistment personnel performing tasks, comparisons can then be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors, accompanied by moderate to high percentages performing, may warrant resident training. Those tasks receiving high task factor ratings, but low percentages performing, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best left out of training for first-enlistment personnel, but this decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks. Various lists of tasks, accompanied by TE and TD ratings, are contained in the Training Extract package and should be reviewed in detail by technical school personnel. For a more detailed explanation of TE and TD ratings, see Task Factor Administration in the SURVEY METHODOLOGY section of this report.

First-Enlistment Personnel

In this study, there are 165 members in their first enlistment, representing 21 percent of all 391X0 personnel surveyed. The majority are assigned to TAC (29 percent), SAC (29 percent), MAC (12 percent), and USAFE (10 percent), and work primarily at the wing and squadron levels. Ninety percent report operating a mini- or microcomputer on the job, while 47 percent report programming these computers. All are qualified at either the 3- or 5-skill level.

As seen in Figure 3 (which displays the distribution of these personnel across specialty job groups), the majority of these first-enlistment members are found in two major jobs (AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS and DATA BASE MANAGERS), with 24 percent not grouping in any of the jobs identified. This large percentage of personnel not grouped indicates a great deal of diversity in the jobs performed by these first-enlistment personnel. The diversity of their job is further seen is Table 12, which lists representative tasks performed by these members. Only four tasks were performed by over 50 percent of the group, with only 62 percent performing the most commonly performed task. This suggests very little commonality among jobs held by these incumbents. The diversity of the group can best be explained by the fact that almost half (45 percent) are working as AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS (see Figure 3). As highlighted in the SPECIALTY JOBS section of this report, a high degree of diversity was noted within this job. Although members were following essentially the same analysis process, their everyday taskings were dependent on the needs of the particular squadron or wing to which they were assigned. Thus, with the majority of first-enlistment personnel found in this diverse group, the diversity of the group as a whole is affected. Since the first-enlistment group is the target for ABR training, this description is highlighted to provide a foundation for examining specialty entry-level training.

PERSONNEL DISTRIBUTION OF 391X@ FIRST-ENLISTMENT (PERCENT MEMBERS PERFORMING) JOB GROUPS ACROSS SPECIALTY

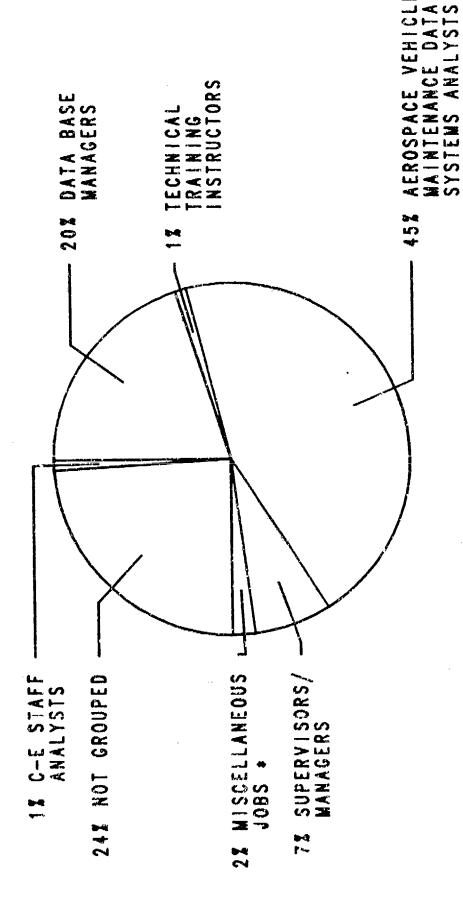


FIGURE 3

MISCELLANEOUS JOBS INCLUÖE SPECIAL STUDIES ANALYSTS, TIME CHANGE MONITORS, AND PRODUCTION CONTROL PERSONNEL.

REPRESENTATIVE TASKS PERFORMED BY 391XO FIRST-ENLISTMENT PERSONNEL

TASKS		MEMBERS PERFORMING (N=165)
N454	OPEN OR CLOSE REMOTE DEVICES	62
	COMPILE DATA FOR AIRCRAFT SUMMARIES	57
	PREPARE MAINTENANCE SUMMARIES	57
	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA	52
	ASSEMBLE DATA OR RECORDS FOR MAINTENANCE SUMMARIES	47
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,	47
E100	OR CHARTS	47
	UPDATE COMPUTER LISTINGS	45
	PREPARE AIRCRAFT STUDIES OR BRIEFINGS	45
	COMPILE AIRCRAFT SCHEDULING EFFECTIVENESS DATA	41
	PREPARE AIRCRAFT OR MISSILE STATUS DATA	39 36
	COLLECT AIRCRAFT OR MISSILE SCHEDULING EFFECTIVENESS DATA	39
F182		20
F104	TRENDS OR PROBLEMS	39
	PREPARE MAINTENANCE DATA COLLECTION REPORTS	38
K368	REVIEW OR SPOT CHECK MAINTENANCE DATA COLLECTION (MDC)	27
6170	SOURCE DOCUMENTS FOR ACCURACY	37
F172		37
***	SUMMARIES	3/
1326	NOTIFY SYSTEM USERS OF STATUS OF UNSCHEDULED DOWNTIME FOR	36
7205	SYSTEMS, SUCH AS MMICS	36 36
1305		30
C 76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, EXCLUDING	33
E160	TRAINING REPORTS	33 32
F162		\$2
M427	ASSEMBLE DATA OR RECORDS FOR COMPUTATION OF STATISTICS,	30
F106	SUCH AS MEAN TIME BETWEEN FAILURE (MTBF)	30 30
E126		30
1306		30
E110	(DPI) OR COMPUTER ROOMS PREPARE AIRCRAFT MISSION ANALYSIS REPORTS	28
	COORDINATE SYSTEM HARDWARE PROBLEMS OR REPAIR WITH DPI OR	20
1309		27
p10	USERS ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	21
B19	UTILIZATION	27
12.C	···	27
B26	DRAFT CORRESPONDENCE	25
	REVIEW AEROSPACE VEHICLE MDC SOURCE DOCUMENTS FOR ACCURACY REVIEW SCHEDULING EFFECTIVENESS DATA	25 25
		24
T 144	AUDIT DAILY DATA INPUTS COORDINATE RECOVERY PROCEDURES WITH DPI OR USERS	24
		22
1311	CORRECT INTERNAL FILE ERRORS	44

Specialty Training Standard (STS)

A comprehensive review of the February 1986 STS for AFSC 391XO compared STS elements with occupational survey data. STS elements containing general information common to all specialties were not reviewed. elements were reviewed in terms of the percent of either first-enlistment, 5-skill level, or 7-skill level personnel performing the matched tasks. This review identified 14 elements of the STS with matched tasks performed by less than 20 percent of any of the above career ladder groups, suggesting that a thorough review of the STS is in order. Examples of these elements, along with percent performing and TE and TD data, are displayed in Table 13. complete listing of the elements is reflected in the 391XO Training Extract published in conjunction with this report. Generally, the majority of unsupported elements were found in STS paragraphs 13 (Statistical Nethods of Data Analysis) and 15 (Organizational Capabilities). It is interesting to note that, of the STS elements supported by survey data in these paragraphs, not one was matched with a task performed by over 23 percent of one of the above career ladder groups. Coupled with the high number of unsupported elements in each paragraph, this indicates there is very little support (in terms of the percent of first-enlistment, 5-skill level, and 7-skill level percent members performing) for retention of these paragraphs in the STS. Training personnel and subject-matter experts should review these paragraphs, in addition to the other elements not supported, to determine if criticality, safety, or some other consideration requires that they remain in the STS.

There were 18 nonsupervisory tasks specific to the 391XO AFSC that were not matched to the STS and were performed by at least 20 percent of the personnel in either the first-enlistment, 5-skill level, or 7-skill level groups. As seen in Table 14, many of these tasks deal with assembling or compiling data for aircraft or maintenance summaries and reviewing various acrospace vehicle status and utilization reports for accuracy. Generally, such tasks not referenced should be covered by some existing element or a new element could be added to the STS. Training personnel should carefully review this list of unreferenced tasks to determine areas which might be appropriate for inclusion in future revisions of the STS.

Plan of Instruction (POI)

Based on assistance from technical school subject-matter experts in matching the job inventory tasks to the Tentative 3ABR39130 001 POI, (dated 13 May 1986), occupational survey data were matched to related training objectives. The specific data examined included percent members performing data for first-enlistment personnel and the TE and TD ratings for the matched tasks.

Of the 60 POI objectives that were matched with survey data, 23 were not supported, as fewer than 30 percent of first-enlistment personnel indicated performing the matched tasks. This equates to 54 hours of course time. Examples of these objectives, along with percent members performing and TE and TD data, are displayed in Table 15, while a complete listing is reflected in the 391XO Training Extract. In general, areas not supported due to low

TABLE 13 EXAMPLES OF 391X0 STS ELEMENTS REQUIRING REVIEW

		ă.	PERCENT MEMBERS PERFORMING	(\$	
STS ELEMENT (WITH SELECTED SAMPLE TASKS)	TNG EMP*	1ST ENL (N=165)	DAFSC 39150 (N=376)	DAFSC 39170 (N=300)	TASK UIFF**
12c DEVELOP FRAMES 1304 BUILD OR UPDATE LOCAL OR OPTIONAL FRAMES	2.46	ъ	0	2 .	69.9
	3.60 2.85	٦ 5 د	o 4	14	5.63
13b(5) UTILIZE DESCRIPTIVE STATISTICS BY CONDUCTING TIME SERIES ANALYSIS H294 PERFORM TIME SERIES (SECULAR TREND) ANALYSIS USING COMPUTERS	2.83	<u> </u>	10	13	5.37
	2.74	1~	ω	<u>5</u>	5.79

^{*} Mean TE Rating is 1.51 and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

TABLE 13 (CONTINUED)

EXAMPLES OF 391X0 STS ELEMENTS REQUIRING REVIEW

		d	PERCENT MEMBERS PERFORMING	\$\$	
STS ELEMENT (WITH SELECTED SAMPLE TASKS)	EMP*	1ST ENL (R=165)	DAFSC 39150 (N=376)	DAFSC 3917C (N=300)	TASK DIFF**
14c CALCULATE COST FACTORS 11437 COMPUTE OR DETERMINE MAN-HOUR COST FACTORS	3.21	က	2	22	5.57
15a(3) DETERMINE MAINTENANCE CAPABILITIES FOR FACILITIES M431 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE FACILITY CAPABILITIES	2.96	9	ယ	Q	5.82
15b(1) DETERMINE MISSION EQUIPMENT AVAILABILITY M433 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE MISSION EQUIPMENT AVAILABILITIES	3.23	r.	4	ഗ	5.93

* Mean TE Rating is 1.51 and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

TABLE 14

TASKS PERFORMED BY 20 PERCENT OR MORE GROUP MEMBERS AND NOT REFERENCED TO THE 391X0 STS

	TASK DIFF**	5.59 5.14 7.03	4.94	4.94	5.13	5.23	4.99	5.25	5.36	5.05	7.27
PERCENT MEMBERS PERFORMING	DAFSC 39170 (N=300)	48 38 37 29	24	22	24	27	29	32 34 34	24	21	23
	DAFSC 39150 (N=376)	53 36 47 21	19	13	ર્ગ	18	25	25 17 32	20	32	14
id.	1ST ENL (N=165)	57 47 56	19	14	14	17	24	22 19 39	24		96
	TNG EMP*	5.70 5.06 4.58	3.94	3.84	3.81	3.78	-	3.73 3.20 3.12	2.59	2.37	2.12
		COMPILE DATA FOR AIRCRAFT SUMMARIE ASSEMBLE DATA OR RECORDS FOR MAINT PREPARE MAINTENANCE SUMMARIES	$\rightarrow \infty$	~	ALLUKAUT 5 REVIEW AEROSPACE VEHICLE MAN-HOUR UTILIZATION 5 REVIEW AEROSPACE VEHICLE MAN-HOUR UTILIZATION		œ	۱ د۔ ۔۵		PREPARE OR SUBNIT LOCAL DATA AUTOMATION PEGULOEMENTS OR DATA AUTOMATION PROPOSALS	DESIGN OR VRITE PROGRAMS FOR SYS
	į	F147 M422 K363	1315 F178	F179	F175	F174	F177	E135	E12	1330	3340

* Mean TF Rating is 1.5! and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

TABLE 15

EXAMPLES OF POI OBJECTIVES REFLECTING LOW 391XO FIRST-ENLISTMENT TASK PERFORMANCE (LESS THAN 30 PERCENT RESPONDING)

POI OBJECTIVE (WITH SELECTED SAMPLE TASKS)	TNG EMP*	1ST ENL (N=165)	TASK DIFF**
IIIID. USING AFM 66-278 VOL I (PHASE IV), REMOTE TERMINAL AND STUDENT PREPARED AF FORM 1530, RETRIEVE ON-LINE MMICS PRODUCTS 1304 BUILD OR UPDATE LOCAL OR OPTIONAL FRAMES	2.46	ស	69.9
VIC. WITHOUT REFERENCE MATERIALS, IDENTIFY THE FUNCTION OF THE DELETE HISTORY (TRICS)	u r	<u>~</u>	5. Jo
I316 INITIATE DELETE HISTORY (DLH) PROCEDURES	2	<u>5</u>	
STATISTICA RIBUTION			
H290 CONSTRUCT FREQUENCY DISTRIBUTION GRAPHS H291 CONSTRUCT FREQUENCY TABLES	3.60 2.85	ე ა	5.63 5.73

^{*} Mean TE Rating is 1.51 and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

では、大きなない。

TABLE 15 (CONTINUED)

EXAMPLES OF POI GBJECTIVES REFLECTING LOW 391XO FIRST-ENLISTMENT TASK PERFORMANCE (LESS THAN 30 PERCENT RESPONDING)

POI OBJECTIVE (MITH SELECTED SAMPLE TASKS)	TNG EMP*	ENL (N=165)	TASK DIFF**
X15A. WITHOUT REFERENCE MATERIALS, IDENTIFY THE BASIC FACTS ABOUT DETERMINING MANPOWER EQUIPMENT AND FACILITY CAPABILITIES			
M430 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE EQUIPMENT CAPABILITIES M431 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE FACILITY REQUIREMENTS	4.44 2.96	20 6	5.97 5.82
X113A. GIVEN A PARTIAL MONTHLY MAINTENANCE PLAN, APPLICABLE COMPLETED SCHEDULED MAINTENANCE ACTION DATA, AND AN ELECTRONIC CALCULATOR, DETERMINE MAINTENANCE ACTION SCHEDULING EFFECTIVENESS RATES			
K370 REVIEW SCHEDULING EFFECTIVENESS DATA	2.57	26	4.57

** Mean TE Rating is 1.51 and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

percentages of personnel performing included: MMICS Support Subsystem, MMICS Recovery/Pseudo Processing, Basic Statistics and Capabilities, and Data Presentation (cost factors and maintenance performance rates).

In accordance with ATCR 52-22, and in the interest of cost-effectiveness, objectives where the probability of first-enlistment performance is less than 30 percent should not be taught in a resident training course without further justification. Although it is apparent that, due to diversity of the career ladder (especially among personnel in their first-enlistment), a completely cost-effective training course may not be possible, it is obvious that some sort of technical training is necessary. Therefore, it is suggested that training management personnel consider another set of performance data in evaluating the Tentative 3ABR39130 001 POI. Specifically, the percent performing data for those first-enlistment personnel in the two major job groups identified in the SPECIALTY JOBS section of this report (AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS and DATA BASE MANAGERS) may lend support for retaining otherwise unsubstantiated objectives in the POI. Examples of these data matched to the unsupported POI objectives are found in Table 16. Using this approach, 14 (versus 23) objectives fail to be supported by the survey data. These objectives include:

- IIIID. USING AFM 66-278 VOL I (PHASE IV), REMOTE TERMINAL, AND STUDENT PREPARED AF FORM 1530, RETRIEVE ON-LINE MMICS PRODUCTS (5 Hours)
- XI2A. GIVEN SELECTED STATISTICAL DATA, CONSTRUCT AN UNGROUPED FREQUENCY DISTRIBUTION (1 Hour)
- XI3A. WITHOUT REFERENCE MATERIALS, IDENTIFY CHARACTERISTICS OF THE MEASURES OF CENTRAL TENDENCY (1.5 Hours)

- XI3B. GIVEN SELECTED STATISTICAL DATA, AN ELECTRONIC CALCULATOR, AND A FORMULA SHEET, CALCULATE THE MEASURES OF CENTRAL TENDENCY (1.5 Hours)
- XI4A. WITHOUT REFERENCE MATERIALS, IDENTIFY CHARACTERISTICS OF SELECTED MEASURES OF VARIABILITY (2 Hours)
- XI4B. GIVEN A FORMULA SHEET, AN ELECTRONIC CALCULATOR, SELECTED STATISTICAL DATA, AND AN EXAMPLE PROBLEM, CALCULATE MEASURES OF VARIABILITY (6 Hours)
- XISA. WITHOUT REFERENCE MATERIALS, IDENTIFY THE BASIC FACTS ABOUT DETERMINING MANPOWER EQUIPMENT AND FACILITY CAPABILITIES (2 Hours)
- XI5B. WITHOUT REFERENCE MATERIALS, IDENTIFY BASIC FACTS ABOUT DETERMINING MISSION EQUIPMENT AVAILABILITY (1 Hour)
- XI5D. WITHOUT REFERENCE MATERIALS, IDENTIFY BASIC FACTS ABOUT DETERMINING FACILITY REQUIREMENTS (1 Hour)

TARIF 16

EXAMPLES OF 391XO PGI GBJECTIVES MATCHED WITH SPECIALTY JOB GROUP DATA (PERCENT FIRST-ENLISTMENT PERSONNEL PERFORMING)

TASK DIFF**	69*9	5.19	5.63	5.97	4.57
DATA BASE MANAGERS	12	73	mo	3 3	w
AEROSPACE VEHICLE MAINTENANCE DATA SYS ANALYSTS		4	യന	25 5	42
TNG EMP*	2.46	3.56	3.60 2.85	4.44	2.57
SELECTED MATCHED TASKS	1304 BUILD OR UPDATE LOCAL OR OPTIONAL FRAMES	I316 INITIATE DELETE HISTORY (DLH) PROCEDURES	H290 CONSTRUCT FREQUENCY DISTRIBUTION GRAPHS H291 CONSTRUCT FREQUENCY TABLES	M430 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE EQUIPMENT CAPABILITIES M431 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE FACILITY CAPABILITIES	K370 REVIEW SCHEDULING EFFECTIVENESS DATA
SEL	130	131	H29	A A	K3
POI OBJECTIVE	III)D.	VIC.	X12A.	XISA.	X113A.

* Mean TE Rating is 1.51 and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

- XISE. WITHOUT REFERENCE MATERIALS, IDENTIFY BASIC FACTS ABOUT PROJECTING MISSION MAINTENANCE CAPABILITIES (1 Hour)
- XII2A. GIVEN MAINTENANCE MAN-HOUR DATA AND AN ELECTRONIC CALCULATOR, DETERMINE JOB AVERAGE COST FACTORS (1 Hour)
- XII2C. GIVEN A MAINTENANCE JOB STANDARD, CREW PERFORMANCE DATA, AND AN ELECTRONIC CALCULATOR, DETERMINE JOB PERFORMANCE EFFICIENCY COST FACTORS (1 Hour)
- XII3B. GIVEN PERFORMANCE DATA AND AN ELECTRONIC CALCULATOR,
 DETERMINE MEAN TIME BETWEEN FAILURE FOR SELECTED
 EQUIPMENT COMPONENTS (3 Hours)
- XII3D. GIVEN PERFORMANCE DATA AND AN ELECTRONIC CALCULATOR,
 DETERMINE SYSTEM RELIABILITY RATES FOR SELECTED AIRCRAFT
 SYSTEMS (1.5 Hours)

These objectives, along with any others which are weakly supported by survey data, should be given serious consideration for deletion by training management personnel. Interestingly, the majority of tasks that were matched to the unsupported POI objectives carried high TE ratings, suggesting that senior NCOs in the career ladder feel some type of training in these areas is appropriate. Given the low percentages of first-enlistment personnel performing the tasks, however, this training might best be removed from the resident course and made a part of a formal OJT program.

Fourteen nonsupervisory tasks which were performed by over 30 percent of first-enlistment personnel were not matched to the POI. These tasks are listed in Table 17. Several of the tasks deal with preparing and assembling data for aircraft or maintenance summaries. All of the tasks have high, if not extremely high, TE ratings, and above average to high TD ratings. Training personnel should carefully review this list of unreferenced tasks to determine the necessity for training and the most effective method to accomplish it.

AFSC 391XO MAJCOM AND CONUS-OVERSEAS GROUP COMPARISONS

Tasks performed and background data for personnel of the major commands (MAJCOM) with the largest populations were compared to determine whether job content varied as a function of MAJCOM assignment. Table 18 displays the relative percent time spent by 391XO personnel across these MAJCOMs by duty groups.

Generally, the jobs performed across the majority of commands were similar, with the largest percentage of duty time in most commands committed to the performance of tasks involving aerospace vehicle maintenance data systems

TABLE 17

THE PROPERTY OF THE PROPERTY O

TASKS NOT REFERENCED TO POI 3ABR39130 OO1 WITH ABOVE AVERAGE TO HIGH TE AND CVER 30 PERCENT MEMBERS PERFORMING

TASK DIFF**	5.41 5.59 6.20	6.12 5.14 4.44	5.45	4.76	6.40	4.65
1ST ENL (N=165)	52 57 45	37 47 38	30 32 32	46	გ 4 დ გ	30 30 30
TNG EMP*	6.03 5.70 5.49	5.14 5.06 4.88	4.77 4.58 4.09	4.01	3.90 3.68	3.12
	EVALJATE MAINTENANCE DATA C COMPILE DATA FOR AIRCRAFT S	PREPARE WRITTEN NARRATIVES D SUMMARIES ASSEMBLE DATA OR RECORDS FOR	REVIEW FULL MISSION CAPABLE RATES (FMCR) FOR TRENDS OR PROBLEMS PREPARE MAINTENANCE SUMMARIES		WRITE EXCLU	13 tr 17
0 % 0 V F	F165	F172	F182 K363	F 16	C76	E139 E120 E126

* Mean TE Rating is i.51 and Standard Deviation is 1.31 ** Average TD Rating is 5.00 and Standard Deviation is 1.00

TABLE 18

RELATIVE PERCENT TIME SPENT ON DUTIES BY 391X0 MAJOR COMMAND GROUPS (PERCENT MEMBERS)

됩	DUTIES	TAC (N=2:6)	SAC (N= 188)	MAC (N=98)	USAFE (N=87)	AFCC (N=50)	ATC (N=47)	PACAF (N=38)	AFSC (N=31)
ď	ORGANIZING AND PLANNING	7	•	M)	un	MO	4	4	er;
œ	DIRECTING AND IMPLEMENTING		12	<u>.</u>	<u></u>		<u></u>	12	רבו נ
ت :	INSPECTING AND EVALUATING	ļω	9	عا	ڡ	œ	^	ထ	
<u>'</u>	TRAINING	ന	4	**	'n	m	23	ליא	က
, LAJ	PREPARING. UPDATING, AND FILING FORMS.	•				1) I	•	
		75	ຼາ	<u></u>	ဥ	7	<u>?</u> 2	<u></u>	ಟ
الما	PERFORMING AEROSPACE VEHICLE DATA FUNCTIONS	21	38	92	ည	F	<u></u>	<u>&</u>	23
6.	PERFORMING COMMUNICATIONS ELECTRONIC								
	METEOROLOGICAL (CEM) FUNCTIONS	64	*	*	r- -	15	*	† :	- -
æ	PERFORMING GENERAL CALCULATIONS AND ANALYSIS								
	FUNCTIONS	5	9	ο,	4	የን	ιΩ	S	7
1	PERFORMING FILES MAINTENANCE FUNCTIONS	96	3	15	<u>5</u>	20	75	<u>8</u>	<u></u>
ي	PERFORMING SYSTEMS ANALYSIS AND DESIGN								
	FUNCTIONS	2	က	ന	2	33	4	m	,
×	MAINTAINING MAINTENANCE DOCUMENTATION AND								
	RECORDS	7	မ	7	80	က	(*)	гO	7
_;	PLANNING AND SCHEDULING MAINTENANCE	 -	7	7	2	*	*	7	¢л
£	COMPUTING AND DETERMINING INFORMATION	ເດ	9	₩	ശ		4	വ	4
ž	MANAGING AND UPDATING AUTOMATED MAINTENANCE								
	RECORDS	₹†	(')	က	က	7	က	7	W
0	PROCESSING SHOP WORK	*	*	*	*	*	*	ო	4
٩.	CONTROLLING MAINTENANCE	*	*	*	¥	,	0	*	0
ċ	PERFORMING MOBILITY SUPPORT FUNCTIONS	*	*	*	*	k	*	*	*

* Less than I percent

analysis, files maintenance (data base management), and administrative functions (Duties E, F, and I). SAC and MAC personnel were distinguished from the other commands to some degree by the relative amount of duty time spent performing general calculations and analysis functions (Duty H). As expected, ATC personnel devoted more of their duty time to training functions (Duty D), reflecting those personnel serving as technical training instructors. The job performed by AFCC personnel, however, was notably different than the majority of other MAJCOM personnel surveyed. As seen in Table 18, a substantial percentage of their duty time was spent performing Communications-Electronics (C-E) and Systems Analysis and Design functions as compared to other MAJCOM personnel surveyed (Duties G and J). While spending an equivalent amount of time performing files maintenance (data base management) functions, only 1 percent of their job time is devoted to tasks involving aerospace vehicle maintenance data systems analysis.

A similar comparison of 391XO 5-skill level CONUS and overseas groups revealed little difference in the jobs performed by these groups.

SECTION III

ANALYSIS OF 392XO DAFSC GROUPS

As explained in Section II, data pertaining to DAFSC groups is important to the analysis of each career ladder. The distribution of 392X0 skill-level groups across career ladder jobs is displayed in Table 19, while Table 20 displays the relative percent time spent on each duty across the skill-level groups. As personnel progress upward through the skill levels, the amount of time spent performing supervisory and managerial tasks (Duties A, B, and C) increases. Correspondingly, time spent on duties involving the technical tasks of the career ladder generally declines, although 7-skill level personnel are still very involved in technical task performance.

Specific skill-level groups are discussed below. Since a comparison of duty and task performance between DAFSCs 39230 and 39250 indicated no substantial difference in the jobs they perform, they will be discussed as a combined group. Similarly, DAFSC 39290 and CEM Code 39200 were also combined for reporting purposes.

Skill Level Descriptions

DAFSCs 39230/50. The 842 airmen in the 3- and 5-skill level group (representing 63 percent of all 392X0 personnel surveyed) perform an average of 39 tasks, with 46 tasks accounting for approximately 50 percent of their job time. Overall, there appears to be a great deal of diversity in the jobs performed by these personnel. For example, as seen in Table 21 (which lists

TABLE 19

DISTRIBUTION OF 392XO DAFSC GROUPS ACROSS CAREER LADDER JOBS (PERCENT MEMBERS)*

CAREER	CAREER LADDER JOBS	DAFSC 39230/50 (N=842)	DAFSC 39270 (N=434)	DAFSC 39290/CEM CODF. (N=52)
e Ired	AEROSPACE VEHICLE MAINTENANCE DATA SYSTEMS ANALYSTS (N=210)	*	*	0
H	DATA BASE MANAGERS (N=161)	0	0	0
# 	MMICS/CAMS FUNCTIONAL SYSTEMS MANAGERS (N=16)	0	O	4
ŢV.		0	O	0
>	HQ AFOTEC/USAFTAWC PERSONNEL (N=5)	0	0	Ō
•IA	OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS (N=10)	0	0	Φ
VII.	0	0	0	0
VIII.		43	45	12
X		4	*	0
×	TCTO MONITORS (N=62)	7	2	0
×	CEMS DOCUMENTATION PERSONNEL (N=85)	∞	ហ	Ō
XII.		81	io E	2
XIII.		0	*	4
XIV.		gest.	* +:	0
X.X		2	16	75
		18	10	4

* Columns may not add to 106 percent due to rounding ** Less than I percent

TABLE 20

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY 392X0 DAFSC GROUPS

DUTIES	IES	DAFSC 39230/50 (N=842)	DAFSC 39270 (N=434)	DAFSC 39290/CEM CODE (N=52)
•	ORGANIZING AND PLANNING	(r)	7	£.
(20)	DIRECTING AND IMPLEMENTING) (()	· <u>च</u>	23
ပံ	INSPE, I'ING AND EVALUATING	2	7	19
<u>_</u>	TRAINING	m	9	9
ŗ.	PREPARING, UPDATING, AND FILING FORMS, RECORDS,			
	AND REPORTS	ស	rc.	m
L.	PERFORMING AEROSPACE VEHICLE DATA FUNCTIONS	ঘা	4	œ
.	PERFORMING COMMUNICATIONS ELECTRONIC METEOROLOGICAL			
	(CEM) FUNCTIONS	*	*	*
÷	PERFORMING GENERAL CALCULATIONS AND AMALYSIS FUNCTIONS	*	*	*
H	PERFORMING FILES MAINTENANCE FUNCTIONS	≯ .	≯ .	-
-)	PERFORMING SYSTEMS ANALYSIS AND DESIGN FUNCTIONS	*	*	ო
×		17	Ξ	4
نہ	PLANNING AND SCHEDULING MAINTENANCE	56	23	12
*	COMPUTING AND DETERMINING INFORMATION	,	2	P
z	MANAGING AND UPDATING AUTOMATED MAINTENANCE RECORDS	15	თ	2
0	PROCESSING SHOP WORK	ភ	0	2
ß.	CONTROLLING MAINTENANCE	m	2	*
0	PERFORMING MOBILITY SUPPORT FUNCTIONS	*	*	*

* Less than I percent

REPRESENTATIVE TASKS PERFORMED BY DAFSC 39230 AND 39250 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 39230/50 (N=842)
N454	OPEN OR CLOSE REMOTE DEVICES	70
E139	UPDATE COMPUTER LISTINGS	63
L378	ASSIGN INDIVIDUAL JOB CONTROL NUMBERS FOR PLANNED	•
		57
N462	MAINTENANCE UPDATE INSPECTION OR TIME CHANGE REQUIREMENTS USING REMOTE	•
	DEVICES	49
L398	INITIATE SCHEDULED INSPECTIONS	46
	SCHEDULE ACCOMPLISHMENT OF TCTO	45
	DISTRIBUTE MAINTENANCE PLANS OR SCHEDULES	43
L375	ADJUST SCHEDULES TO MEET EMERGENCY OR PRIORITY MAINTENANCE	10
	D CALLED CHICAGO	4.0
K353	CONDUCT AUTOMATED RECORDS REVIEWS	42
NAA7	LOAD DISCREPANCIES INTO SYSTEM RECORDS	41
K371	REVIEW TCTO STATUS REPORTS	41
L406	POST SCHEDULING INFORMATION ONTO VISUAL MEDIA, SUCH AS	, ,
	CONDUCT AUTOMATED RECORDS REVIEWS LOAD DISCREPANCIES INTO SYSTEM RECORDS REVIEW TCTO STATUS REPORTS POST SCHEDULING INFORMATION ONTO VISUAL MEDIA, SUCH AS BOARDS OR CHARTS	40
N444	FORECAST INSPECTION OR TIME CHANGE REQUIREMENTS USING	
*****	REMOTE DEVICES	40
N463	REVIEW TCTO STATUS REPORTS POST SCHEDULING INFORMATION ONTO VISUAL MEDIA, SUCH AS BOARDS OR CHARTS FORECAST INSPECTION OR TIME CHANGE REQUIREMENTS USING REMOTE DEVICES UPDATE TCTO STATUS INFORMATION USING REMOTE DEVICES UPDATE DISCREPANCY DATA USING REMOTE DEVICES CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS PREPARE INSPECTION PACKAGES	39
N460	UPDATE DISCREPANCY DATA USING REMOTE DEVICES	39
L382	CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS	39
L418	SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS	39
L407	PREPARE INSPECTION PACKAGES	38
K373	UPDATE TCTO CHANGES OR REPORTS	37
N448	LOAD INITIAL INSPECTION OR TIME CHANGE REQUIREMENTS INTO	
	SYSTEM RECORDS	37
P510	ASSIGN JOB CONTROL NUMBERS TO UNSCHEDULED MAINTENANCE JOBS INITIATE TIME CHANGE ACTIONS	36
K357	INITIATE TIME CHANGE ACTIONS	36
	INITIATE OR MAINTAIN MASTER ID LISTINGS	34
L384	COORDINATE FLYING/UTILIZATION OR MAINTENANCE SCHEDULING	- '
	CHANGES WITH ACTION AGENCIES	33
L410		32
L394	PREPLAN DAILY MAINTENANCE DEVELOP WEEKLY UTILIZATION OR MAINTENANCE SCHEDULES FOR AEROSPACE VEHICLES	
	AEROSPACE VEHICLES	31
L411	PROJECT MAINTENANCE REQUIREMENTS	31
L379	PROJECT MAINTENANCE REQUIREMENTS ASSIGN OR ADJUST PRIORITIES FOR PLANNED OR PREPLANNED	
	MAINTENANCE	31
L415	SCHEDULE AEROSPACE VEHICLE INSPECTIONS	29
0465	ASSIGN JOB CONTROL NUMBERS FOR OFF-EQUIPMENT WORK	25

representative tasks performed by the group), only three tasks are performed by over 50 percent of these personnel, with only 70 percent performing the most commonly performed task. This suggests there is very little commonality among jobs held by these incumbents. This fact is further highlighted in Table 19, which displays the distribution of DAFSC group members across career ladder jobs. Overall, 3- and 5-skill level personnel were found in five of the six jobs that were identified as specific to the 392XO AFSC (PLANS AND SCHEDULING PERSONNEL, TIME CHANGE MONITORS, TCTO MONITORS, CEMS DOCUMENTATION PERSONNE, and PRODUCTION CONTROL PERSONNEL). Although the majority (43 percent) of these personnel are clearly working as PLANS AND SCHEDULING : I'ERSONNEL, the fact that they are distributed across the majority of 392X0 jobs identified adds to the diversity of the group as a whole. Additionally, Table 19 indicates that 18 percent of these personnel were not found in any of the jobs identified, again suggesting a great deal of diversity in the jobs performed by these members. A similar pattern of diversity is also evident when reviewing the relative percent time spent on various duties oriented toward AFSC 392XO functions (see Table 20, Duties K, L, N, and O). Again, 3and 5-skill level members are spending considerable amounts of time across each duty versus concentrating on only a few duties.

DAFSC 39270. At the 7-skill level, the degree of diversity noted at the lower skill levels begins to taper off and the job broadens with the addition of supervisory responsibilities to technical task performance (an average of 61 tasks are performed versus 39). Yet, while 78 percent of the group report some level of supervision, only 39 percent of their duty time is devoted to performing tasks in the typical supervisory, managerial, and administrative duties (see Table 20, Duties A through E). Further, only 16 percent of the group are found in the SUPERVISORS/MANAGERS job group identified in the SPECIALTY JOBS section of this report (the one job that was predominantly supervisory in nature). In fact, while the percentage of 7-skill level personnel working as TIME CHANGE MONITORS, TCTO MONITORS, CEMS DOCUMENTATION PERSONNEL, and PRODUCTION CONTROL PERSONNEL decreases, the percentage working as PLANS AND SCHEDULING PERSONNEL actually increases from 43 to 45 percent (see Table 19). This reflects the fact that a large number of 392XO personnel who grouped into the PLANS AND SCHEDULING cluster were working as NCOICs of Plans/Scheduling or Plans/Scheduling/Documentation, and in that capacity, were performing a large number of technical tasks in addition to their supervisory responsibilities. A review of tasks commonly performed by the group (see Table 22) reveals that, while the responsibility for supervision and management is quite clear, over 40 percent of these 7-skill level personnel are still performing technical tasks such as scheduling the accomplishment of TCTOs and developing weekly utilization or maintenance schedules for aerospace vehicles. Thus, while Tables 19, 20, and 22 clearly indicate that 7-skill level personnel are engaged in supervisory/managerial functions, they also reflect the range of the job, in that these personnel are also technicians, performing a wide variety of maintenance scheduling technical tasks. further highlight this dual technical/supervisory involvment, Table 23 lists representative task differences between DAFSC 39230/50 and DAFSC 39270 personnel. While the difference between the skill levels is minimal in terms of technical task performance, career ladder progression is evident, as seen in the substantial percentage increases in supervisory/managerial tasks performed by the 7-skill level group.

REPRESENTATIVE TASKS PERFORMED BY DAFSC 39270 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 39270 (N=434)
C7 3	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	73
B21	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	MATTERS	71
N454		65
	SUPERVISE MAINTENANCE SCHEDULING SPECIALISTS (AFSC 39250)	
	PLAN OR SCHEDULE WORK ASSIGNMENTS	60
A7	ESTABLISH WORK PRIORITIES DEVELOP WORK METHODS OF PROCEDURES	59 59
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,	59
DZJ	OR CHARTS	58
B26		56
	CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS	54
B35		J-T
	SUBORDINATES	54
D97		54
L375	ADJUST SCHEDULES TO MEET EMERGENCY OR PRIORITY MAINTENANCE	
	REQUIREMENTS	53
L378	ASSIGN INDIVIDUAL JOB CONTROL NUMBERS FOR PLANNED	
	MAINTENANCE	52
B19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	
***	UTILIZATION	47
K371		47
D81		47
L384	COORDINATE FLYING/UTILIZATION OR MAINTENANCE SCHEDULING CHANGES WITH ACTION AGENCIES	46
L414		46 46
N462	UPDATE INSPECTION OR TIME CHANGE REQUIREMENTS USING REMOTE	40
11702	DEVICES	45
1 398	INITIATE SCHEDULED INSPECTIONS	45
L406	POST SCHEDULING INFORMATION ONTO VISUAL MEDIA, SUCH AS	
	BOARDS OR CHARTS	44
L418	SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS	44
K353	CONDUCT AUTOMATED RECORDS REVIEWS	44
L376	ADJUST SCHEDULES TO MEET EMERGENCY OR PRIORITY OPTIONAL OR	
	FLYING REQUIREMENTS	43
K370		42
L394	DEVELOP WEEKLY UTILIZATION OR MAINTENANCE SCHEDULES FOR	
	AEROSPACE VEHICLES	40
L379	ASSIGN OR ADJUST PRIORITIES FOR PLANNED OR PREPLANNED	40
1 205	MAINTENANCE DECHIDEMENTS WITH ODERATIONS	40 30
L385	COORDINATE MAINTENANCE REQUIREMENTS WITH OPERATIONS	39 30
L383	CONDUCT PREINSPECTION MEETINGS	39 38
L407 L410	PREPARE INSPECTION PACKAGES PREPLAN DAILY MAINTENANCE	38 37
K357	INITIATE TIME CHANGE ACTIONS	3 <i>7</i> 36
1100/	ATTATATE TATIL VIGITAL TIVEAUTY	ΨŪ

TABLE 23

REPRESENTATIVE TASK DIFFERENCES BETWEEN DAFSC 39230/50 AND DAFSC 39270 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 39230/50 (N=842)	DAFSC 39270 (N=434)	DIFF
P510	ASSILIN JOB CONTROL NUMBERS TO UNSCHEDULED MAINTENANCE	2		
L399 K358	SOBS MAINTAIN MANUAL DELAYED DISCREPANCY FILES MAINTAIN MANUAL RECORDS OF RECURRING INSPECTION TIMES OR	29 29	23 y	0 Q + +
1378	DATES ASSIGN INDIVIDUAL 108 CONTROL NUMBERS FOR PLANNED	33	28	ري +
N454	MAINTENANCE OPEN OR CLOSE REMOTE DEVICES	22.0	ბ::::::::::::::::::::::::::::::::::::	មេក
1 1	1	# 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		1 1
C73	PREPARE AIRMAN PERFORMANCE REPORTS (APR)		73	-57
- 7 G	COUNSEL SUBURDINALES UN FENSUNAL UR MILLIAMISKERALED MATTERS CUBERVISE MATNITANANCE SCHEDIII ING SDECTALISTS (ARSO)	8.	7.1	-53
t O	SUFENTISE MAINTENANCE SCHEDULING SPECIFIESS (FISC. 39250)	. 21	61	-49
A15 B35	SCHEDULE LEAVES OR PASSES INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	ઝ	47	-4 2
		13	54	[7-
260	PREPARE OR UPDATE TRAINING RECORDS	~ ;	54	-41
826 822	DRAFT CORRESPONDENCE DEVELOP WORK METHODS OR PROCEDURES	16 24	50 20 20 20 20 20 20 20 20 20 20 20 20 20	-40 -35
186		17	47	-30
<u>Б</u>	ADVISE COLET OF MAINTENANCE ON EQUIPMENT INTENANCE ON UTILIZATION	18	47	-29
A10	PLAN OR SCHEDULE WORK ASSIGNMENTS	36 31	90	-24
A/	EVIABLION WORK PRIORILIES	S.S.	S) C)	+24

DAFSCs 39290/CEM Code. The degree of diversity noted at the 3- and 5-skill levels essentially disappears at this level of performance, with supervisory, managerial, and administrative responsibilities comprising the majority (64 percent) of these incumbents' job time (see Table 20). This is further reflected in the fact that 75 percent of these personnel are found in the SUPERVISORS/MANAGERS job group identified in the SPECIALTY JOBS section of this report (see Table 19), while those tasks representative of the group as a whole are clearly supervisory/managerial in nature (see Table 24). Table 25 displays representative task differences between this group and the 7-skill level group just discussed. A review of this table indicates that career ladder progression is clear, as the percent of 9-skill and CEM Code level personnel performing supervisory/managerial tasks increases, while the percent performing technical tasks definitely declines.

Summary

Career ladder progression is well defined, with personnel at the 3- and 5-skill levels spending the vast majority of their time performing technical tasks, while supervisory, managerial, and administrative functions become the more dominant characteristic of the 7-skill level job. Low numbers of tasks performed by over 50 percent of the 3- and 5-skill level group and the number of different jobs they are in suggest a great deal of diversity in this career ladder group. Nine-skill level and CEM Code personnel were clearly managers and supervisors, performing predominantly supervisory, managerial, and administrative tasks.

ANALYSIS OF 392XO AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data by skill level were compared to the AFR 39-1 Specialty Descriptions for the Maintenance Scheduling Specialist, Technician, and Superintendent (39230/50, 39270, and 39290/CEM Code, respectively), all dated 30 April 1987. These descriptions are intended to give a broad overview of the duties and tasks performed in each skill level of the specialty. As mentioned previously in the SPECIALTY JOBS section of this report, all references to production control activities (excluding PME functions) have been deleted from this April 1987 revision of the specialty descriptions. Since personnel working in production control activities represented approximately 16 to 20 percent of all 392XO personnel surveyed between December 1985 and April 1986, career field managers will need to ensure the appropriate steps are taken to effect a smooth transition of these personnel into other facets of the 392XO career ladder.

The specialty descriptions for the Maintenance Scheduling Technician and Maintenance Scheduling Superintendent accurately reflect the combined supervisory and technical nature of the 7-skill level job and the staff and managerial nature of the 9-skill/CEM Code level job. The 3-/5-skill level description also appears complete and accurately portrays the range and technical nature of the job.

TAXABLE LANCE AND LANCE PROPERTY.

REPRESENTATIVE TASKS PERFORMED BY DAFSC 39290 AND CEM CODE PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS	-	DAFSC 39290/ CEM CODE (N=52)
B26	DRAFT CORRESPUNDENCE INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES ASSIGN PERSONNEL TO DUTY POSITIONS PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS PREPARE AIRMAN PERFORMANCE REPORTS (APR) COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED MATTERS ESTABLISH WORK PRIORITIES ESTABLISH DERSONNEL DEPENDMANCE STANDARDS	98
B35	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	90
Al	ASSIGN PERSONNEL TO DUTY POSITIONS	88
A13	PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS	87
C73	PREPARE AIRMAN PERFURMANCE REPURIS (APR)	87
B27	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-KETATED	0.7
A 7	MHIILKS	87 83
A7 A5	ESTABLISH PERSONNEL PERFORMANCE STANDARDS	83 81
дэ В 19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	01
D 13	UTILIZATION	75
C60		75 75
	CONDUCT STAFF MEETINGS	75 75
	PLAN OR SCHEDULE WORK ASSIGNMENTS	73
	SUPERVISE MAINTENANCE SCHEDULING TECHNICIANS (AFSC 39270)	-
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,	• •
	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS, OR CHARTS EVALUATE PERSONNEL ASSIGNMENTS EVALUATE JOB DESCRIPTIONS REVIEW TCTO STATUS REPORTS ANALYZE WORKLOAD REQUIREMENTS CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS REVIEW SCHEDULING EFFECTIVENESS DATA ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS MAKE STAFF ASSISTANCE VISITS IMPLEMENT LOCAL TRAINING PROGRAMS EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, OR RECLASSIFICATION EVALUATE SUGGESTIONS EVALUATE COMPLIANCE WITH WORK STANDARDS EVALUATE CONTENTS OF TECHNICAL ORDERS (TO) COORDINATE MAINTENANCE REQUIREMENTS WITH OPERATIONS	71
C63	EVALUATE PERSONNEL ASSIGNMENTS	69
C61	EVALUATE PERSONNEL ASSIGNMENTS EVALUATE JOB DESCRIPTIONS	69
K371	REVIEW TOTO STATUS REPORTS	63
C51	ANALYZE WORKLOAD REQUIREMENTS	62
L382	CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS	60
K370	REVIEW SCHEDULING EFFECTIVENESS DATA	58
D78	ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS	58
C72	MAKE STAFF ASSISTANCE VISITS IMPLEMENT LOCAL TRAINING PROGRAMS	56
B32	IMPLEMENT LOCAL TRAINING PROGRAMS	56
C58	EVALUATE INDIVIDUALS FOR PROMOTION, DEMOTION, OR	
	RECLASSIFICATION	54
C68	EVALUATE SUGGESTIONS	54
C55	EVALUATE COMPLIANCE WITH WORK STANDARDS	52
C56	EVALUATE CONTENTS OF TECHNICAL ORDERS (TO)	52
	COORDINATE MAINTENANCE REQUIREMENTS WITH OPERATIONS	50
r IDZ	CUMPUCE BRICKINGS ON PRODUCTED ALRCRAFT REQUIREMENTS	48
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, EXCLUDING TRAINING REFORTS	46
	TRAINING REFURIS	40

TABLE 25

REPRESENTATIVE TASK DIFFERENCES BETWEEN DAFSC 39270 AND DAFSC 39290/CEM CODE PERSONNEL (PERCENT MEMBERS PERFORMING)

DIFF	+ + 39 + 34 + 32	+ + + + + + + + + + + + + + + + + + +	+25	008844	- 42 - 39 - 36 - 33
DAFSC 39290/ CEM CODE (N=52)	13 10 51	35 8 10 71	9 1	87 75 69 81 71	71 56 90 69
DAFSC 39270 (N=434)	52 44 44	44 45 38 45 38 65 38 64	44	37 26 33 10	29 17 54 36
	ASSIGN INDIVIDUAL JOB CONTROL NUM MAINTENANCE SCHEDULE REPLACEMENT OF TIME CHAI CONDUCT AUTOMATED RECORDS REVIEW	UPDATE INSPECTION OR TIME CHANGE REQUIREMENTS USING REMOTE DEVICES SCHEDULE ACCOMPLISHMENT OF TCTO OPEN OR CLOSE REMOTE DEVICES INITIATE TIME CHANGE ACTIONS LOAD DISCREPANCIES INTO SYSTEM RECORDS TATIATE SCHEDULED INSPECTIONS	POST SCHEDULING INFORMATION ONTO VISUAL MEDIA, SUCH AS BOARDS OR CHARTS	PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS EVALUATE INSPECTION REPORTS OR PROCEDURES EVALUATE JOB DESCRIPTIONS ESTABLISH PERSONNEL PERFORMANCE STANDARDS DRAFT OR REVISE JOB DESCRIPTIONS EVALUATE SUGGESTIONS	SUPERVISE MAINTENANCE SCHEDULING TECHNICIANS (AFSC 39270) MAKE STAFF ASSISTANCE VISITS INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES
TASKS	L378 L418 K353	L414 N454 N454 N447 N447	1406	A13 C60 C61 A5 B27 C68	846 C72 B35 C70

392XO TRAINING ANALYSIS

As explained in Section II, occupational survey data provide one of the many sources of information which can be used to assist in the development of a training program relevant to the needs of personnel in their first enlistment. Specifically, the primary factor used to review training programs is the percent of first-enlistment (1-48 months TAFMS) personnel performing specific tasks. Other considerations in training decisions include the overall description of the job being performed by first-enlistment personnel and their overall distribution across career ladder jobs, the percent of first-job (1-24 months TAFMS) personnel performing specific tasks, training emphasis ratings (previously explained in the SURVEY METHODOLOGY section of this report), subject-matter expert input, and the availability of training equipment or instructors. Normally, task difficulty ratings would also be considered; however, when asked to assess the relative difficulty of tasks in the job inventory, senior level personnel showed so much disagreement that no reliable data for this factor could be reported.

This training analysis reviews the current Specialty Training Standard (STS) and Tentative Plan of Instruction (POI) for the 392XO career ladder. Technical school personnel from Chanute Technical Training Center matched tasks from the job inventory to corresponding sections of the STS and Tentative POI for Course 3ABR39230 000. Occupational survey data for the matched tasks were then used to assess the appropriateness of the various items in the training documents. A complete computer listing displaying the percent members performing tasks, training emphasis ratings for each task, along with the STS and POI matchings, has been forwarded to the technical school for their use in further detailed reviews of the training documents. A summary of this information is presented below.

Training Emphasis Data

Training emphasis data provide information on first-term training needs, as perceived by experienced senior career ladder personnel in the field. This information, along with the percent members performing data, can aid training managers in determining if revisions to the STS or POI are required. Bucause the TE ratings are the composite opinion of experienced career ladder personnel as to which tasks are considered important for first-term airman training, these data can guide training developers in where to place emphasis in entrylevel training. Tasks receiving high TE ratings, accompanied by moderate to high percentages of first-enlistment personnel performing tasks, may warrant resident training. Those tasks receiving high TE ratings but low percentages performing may be more appropriately planned for OJT programs within the career ladder. Low TE ratings may highlight tasks best left out of training for first-enlistment personnel, but this decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks. Imious lists of tasks, accompanied by TE ratings, are contained in the Training Extract package and should be reviewed in detail by technical school personnel. For a more detailed explanation of TE rating, see Task Factor Administration in the SURVEY METHODOLOGY section of this report.

First-Enlistment Personnel

In this study, there are 521 members in their first enlistment, representing 39 percent of all 392X0 personnel surveyed. The majority are assigned to TAC (40 percent), SAC (20 percent), MAC (16 percent), and USAFE (12 percent), working primarily at the wing and squadron levels. Fifty-one percent report operating a mini- or microcomputer on the job. All are qualified at either the 3- or 5-skill level.

As seen in Figure 4 (which displays the distribution of these personnel across specialty jobs), these first-enlistment members are found in five of the six jobs identified as specific to the 392XO AFSC (PLANS AND SCHEDULING PERSONNEL, TIME CHANGE MONITORS, TCTO MONITORS, CEMS DOCUMENTATION PERSONNEL, and PRODUCTION CONTROL PERSONNEL), with 20 percent not grouping in any of the jobs identified. Although the majority (44 percent) are found in the PLANS AND SCHEDULING PERSONNEL group, the fact that they are distributed across a variety of jobs and that a sizeable number did not group into any of the identified jobs suggests a great deal of diversity in the jobs performed by these first-enlistment personnel. This diversity is also seen in Table 26, which lists representative tasks performed by these members. Only three tasks were performed by over 50 percent of the group, with only 71 percent performing the most commonly performed task. This suggests very little commonality among jobs held by these incumbents. A similar pattern of diversity is also evident when reviewing the relative percent time spent on various duties oriented toward the 392XO AFSC (see Table 27, Duties K, L, N, Again, first-enlistment members are spending considerable amounts of time across each duty versus concentrating their time on only a few duties. Since the first-enlistment group is the target for ABR training, this description is highlighted to provide a foundation for examining specialty entry-level training.

Specialty Training Standard (STS)

A comprehensive review of the August 1986 STS for AFSC 392X0 compared STS elements with occupational survey data. STS elements containing general information common across AF specialties were not reviewed. The remaining elements were reviewed in terms of the percent of either first-job, first enlistment, 5-skill level, or 7-skill level personnel performing the matches tasks. This review found only one STS element (STS 9a) with tasks being performed by less than 20 percent of any skill level group covered by the STS, as shown below:

PERSONNEL DISTRIBUTION OF 392X® FIRST-ENLISTMENT ACROSS SPECIALTY JOB GROUPS **PERFORMING)** (PERCENT MEMBERS

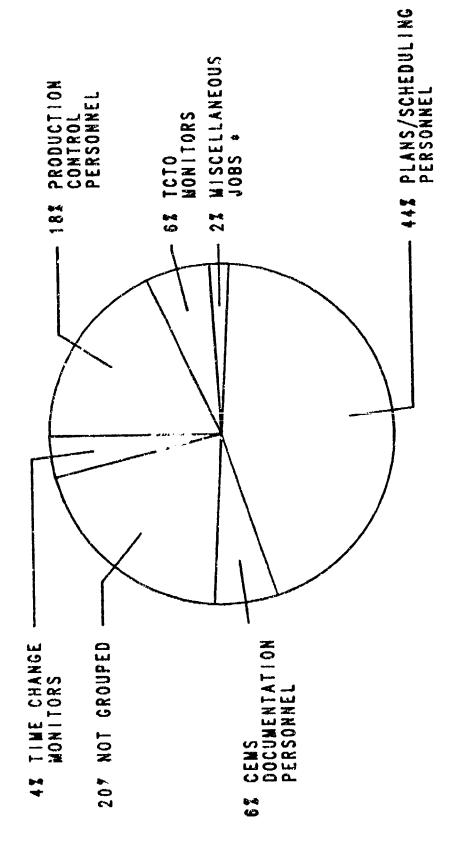


FIGURE 4

SUPERVISORS/MANAGERS. MISCELLANEOUS JOBS INCLUDE TECHNICAL TRAINING INSTRUCTORS. And Aerospace Vehicle Maintenance data systems analysts.

TABLE 26

REPRESENTATIVE TASKS PERFORMED BY 392XO FIRST-ENLISTMENT PERSONNEL

TASKS		MEMBERS PERFORMING (N=521)
	OPEN OR CLOSE REMOTE DEVICES	71
E139	UPDATE COMPUTER LISTINGS	64
L378	ASSIGN INDIVIDUAL JOB CONTROL NUMBERS FOR PLANNED	
	MAINTENANCE	60
N462	UPDATE INSPECTION OR TIME CHANGE REQUIREMENTS USING REMOTE	_
	DEVICES	49
L395	DISTRIBUTE MAINTENANCE PLANS OR SCHEDULES	46
L398	INITIATE SCHEDULED INSPECTIONS	45
K353	CONDUCT AUTOMATED RECORDS REVIEWS	44
N460	UPDATE DISCREPANCY DATA USING REMOTE DEVICES	43
[4]4	SCHEDULE ACCOMPLISHMENT OF TCTO	43
N447	LOAD DISCREPANCIES INTO SYSTEM RECORDS	42
L382 L375	DEVICES DISTRIBUTE MAINTENANCE PLANS OR SCHEDULES INITIATE SCHEDULED INSPECTIONS CONDUCT AUTOMATED RECORDS REVIEWS UPDATE DISCREPANCY DATA USING REMOTE DEVICES SCHEDULE ACCOMPLISHMENT OF TCTO LOAD DISCREPANCIES INTO SYSTEM RECORDS CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS ADJUST SCHEDULES TO MEET EMERGENCY OR PRIORITY MAINTENANCE REQUIREMENTS	42
	REQUIREMENTS	42
K354	CONDUCT MANUAL RECORDS REVIEWS	41
L406	POST SCHEDULING INFORMATION ONTO VISUAL MEDIA, SUCH AS	
	BOARDS OR CHARTS	40
N463	UPDATE TOTO STATUS INFORMATION USING REMOTE DEVICES	40
L407	PREPARE INSPECTION PACKAGES	40
N444	FORECAST INSPECTION OR TIME CHANGE REQUIREMENTS USING	
	REMOTE DEVICES	39
	SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS	39
	UPDATE TOTO CHANGES OR REPORTS	37
P510		37
N448	LOAD INITIAL INSPECTION OR TIME CHANGE REQUIREMENTS INTO	
	SYSTEM RECORDS	37
	INITIATE TIME CHANGE ACTIONS	36
L410		34
L399	MAINTAIN MANUAL DELAYED DISCREPANCY FILES	32
L394	DEVELOP WEEKLY UTILIZATION OR MAINTENANCE SCHEDULES FOR	
	AEROSPACE VEHICLES	32
	INITIATE OR MAINTAIN MASTER ID LISTINGS	31
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS, GRAPHS,	
	OR CHARTS	3 0
K372		3 0
L4]]	PROJECT MAINTENANCE REQUIREMENTS	30
L415	SCHEDULE AEROSPACE VEHICLE INSPECTIONS	29
M426	COMPUTE HOURS TO NEXT PHASE	29
N46]	UPDATE EQUIPMENT OPERATING TIMES USING REMOTE DEVICES	28
L390	DEVELOP MONTHLY UTILIZATION OR MAINTENANCE SCHEDULES FOR	20
	OBBITS MALE VERLILLES	/) H

を受けた。これは、1980年には、1980年によっている。 1980年によっている。 1980年によっている。

RELATIVE PERCENT TIME SPENT PERFORMING DUTIES BY 392X0 FIRST-ENLISTMENT PERSONNEL

DUT	TIES	FIRST ENLISTMENT PERSONNEL (N=521)
Α.	ORGANIZING AND PLANNING	3
₿.	DIRECTING AND IMPLEMENTING	3
c.	INSPECTING AND EVALUATING	2
D.	TRAINING	*
E.	PREPARING, UPDATING, AND FILING FORMS, RECORDS, AND REPORTS	5
F.	PERFORMING AEROSPACE VEHICLE DATA FUNCTIONS	4
G.	PERFORMING COMMUNICATIONS ELECTRONIC METEOROLOGICAL (CEM) FUNCTIONS	*
н.	PERFORMING GENERAL CALCULATIONS AND ANALYSIS FUNCTIONS	*
I.	PERFORMING FILES MAINTENANCE FUNCTIONS	*
J.	PERFORMING SYSTEMS ANALYSIS AND DESIGN FUNCTIONS	*
ĸ.	MAINTAINING MAINTENANCE DOCUMENTATION AND RECORDS	18
L.	PLANNING AND SCHEDULING MAINTENANCE	28
М.	COMPUTING AND DETERMINING INFORMATION	1
N.	MANAGING AND UPDATING AUTOMATED MAINTENANCE RECORDS	17
0.	PROCESSING SHOP WORK	15
Ρ.	CONTROLLING MAINTENANCE	3
0.	PERFORMING MOBILITY SUPPORT FUNCTIONS	*

^{*} Less than 1 percent

	JOB JOB	1ST ENL	DAFSC 39250	DAFSC 39270	TNG EMP*
9a. Determine capabilities to support operational requirements related to operational planning cycle					
M430 Compute or determine aircraft or missile equipment capabilities	3	5	6	13	2.80

^{*} Mean TE Rating is 1.59 and Standard Deviation is 1.75.

Training personnel and subject-matter experts should review this element to determine if criticality, safety, or some other consideration requires that it remain in the STS.

Additionally, six nonsupervisory tasks specific to the 392X0 AFSC were not matched to the STS and were performed by at least 20 percent of the personnel in either the first-job, first-enlistment, 5-skill level, or 7-skill level groups. These tasks, together with percent members performing data and TE ratings, include:

		15T J0B	1ST ENL	DAFSC 39250	DAFSC 39270	TNG EMP*
L407 L376	Prepare inspection packages Adjust schedules to meet emergency or priority optional or flying	32	40	39	38	6.05
	requirements	23	31	31	43	5.34
L400	Maintain scheduled maintenance reports	19	23	24	29	5.09
L397	Gather operational data, such as	3.5	10	17	24	4 71
l.377	flying hours, from other agencies Assign blocks of job control numbers to functional users	15 17	18 18	17 21	24 29	4.11 4.07
N445	Input or update current condition status of assigned equipment using					
	remote devices	19	20	22	22	3.55

^{*} Mean TE Rating is 1.59 and Standard Deviation is 1.75.

Generally, such tasks not referenced should be covered by some existing element or a new element could be added to the STS.

Plan of Instruction (POI)

Based on assistance from technical school subject-matter experts in matching the job inventory tasks to the Tentative 3ABR39230 000 POI, dated 6 January 1987, occupational survey data were matched to related training objectives. The specific data examined included percent members performing data for first-job and first-enlistment personnel, together with TE data for the matched tasks.

Of the 50 POI objectives that were matched with survey data, 12 were not supported, as fewer than 30 percent of first-enlistment personnel indicated performing the matched tasks. This equates to 54.5 hours of course time. Examples of these objectives, along with percent members performing and TE data are displayed in Table 28, while a complete listing is reflected in the 392XO Training Extract. In general, areas not supported due to low percentages of personnel performing included: Quarterly Planning (fleet time and capabilities), Monthly Planning, and Weekly Planning (operational events subsystem).

In accordance with ATCR 52-22, and in the interest of cost-effectiveness, objectives where the probabiltiv of first-enlistment performance is less than 30 percent should not be taught in a resident training course without further justification. Although it is apparent that, due to the diversity of the career ladder (especially among personnel in their first enlistment), a completely cost-effective training course may not be possible, it is obvious that some type of technical training is necessary. Therefore, it is suggested that training management personnel consider another set of performance data in evaluating the Tentative 3ABR39230 000 POI. Specifically, the percent performing data for those first-enlistment personnel in the major 392XO job groups identified in the SPECIALTY JOBS section of this report (PLANS AND SCHEDULING PERSONNEL. TIME CHANGE MONITORS. TCTO MONITORS. DOCUMENTATION PERSONNEL) may lend support for retaining unsubstantiated objectives in the POI. Examples of these data matched to the unsupported POI objectives are found in Table 29. Using this approach, only 3 (versus 12) objectives fail to be supported by the survey data. objectives include:

- IVIB. WITHOUT THE USE OF REFERENCE MATERIALS, IDENTIFY SELECTED FACTS OF FLEET TIME (4 Hours)
- IVIC. GIVEN PERTINENT INFORMATION, PROJECT FLEET TIME (2 Hours)
- IVIE. GIVEN A CALCULATOR AND FIVE MAINTENANCE CAPABILITY FORMULAS, COMPUTE AT LEAST FOUR OUT OF FIVE CAPABILITY PROBLEMS CORRECTLY (8 Hours)

These objectives, along with any others which are weakly supported by survey data, should be given serious consideration for deletion by training management personnel. Interestingly, the majority of tasks that were matched to the unsupported POI objectives carried high TE ratings, suggesting that

TABLE 28

EXAMPLES OF POI OBJECTIVES REFLECTING LOW 392XO FIRST-ENLISTMENT TASK PERFORMANCE (LESS THAN 30 PERCENT RESPONDING)

151

15T

POI OBJECTIVE (WITH SELECTED SAMPLE TASKS)	EMP	JOB (N=259)	ENL (N=521)
IYIC. GIVEN PERTINENT INFORMATION, PROJECT FLEET TIME HOURS			
M425 COMPUTE FLEET TIME HOURS	4.20	ω	10
IVIE. GIVEN A CALCULATOR AND FIVE MAINTENANCE CAPABILITY FORMULAS, COMPUTE AT LEAST FOUR OUT OF FIVE CAPABILITY PROBLEMS CORRECTLY			
M430 COMPUTE OR DETERMINE AIRCRAFT OR MISSILE EQUIPMENT CAPABILITIES			
IV2D. WITHOUT REFERENCE MATERIALS, IDENTIFY SELECTED FACTS ABOUT MAINTENANCE SCHEDULING EFFECTIVENESS	2.80	ო	က
K351 COLLECT AIRCRAFT OR MISSILE SCHEDULING EFFECTIVENESS DATA K370 REVIEW SCHEDULING EFFECTIVENESS DATA	4.21	130	52 52
IV2F. GIVEN A PREVIOUSLY PREPARED AF FORM 2401 AND PERTINENT INFORMATION, DEVELOP A MONTHLY UTILIZATION/MAINTENANCE PLAN			
L390 DEVELOP MONTHLY UTILIZATION OR MAINTENANCE SCHEDULES FOR AEROSPACE VEHICLES	5.71	12	28

^{*} Mean TE Rating is 1.59 and Standard Deviation is 1.75

TABLE 28 (CONTINUED)

EXAMPLES OF POI OBJECTIVES REFLECTING LOW 392XO FIRST-ENLISTMENT TASK PERFORMANCE (LESS THAN 30 PERCENT RESPONDING)

1ST ENL (N=521)	28 14
1ST 308 (N=259)	29 14
TNG P*	4.98
POI OBJECTIVE (WITH SELECTED SAMPLE TASKS) VID. GIVEN APPLICABLE REFERENCE MATERIALS AND PERTINENT INFORMATION, FORMAT INPUTS TO MAINTAIN THE OPERATIONAL EVENT SUBSYSTEM OF	MMICS N461 UPDATE EQUIPMENT OPERATING TIMES USING REMOTE DEVICES N459 UPDATE CURRENT STATUS OF OPERATIONAL EVENTS USING REMOTE DEVICES

* Mean TE Rating is 1.59 and Standard Deviation is 1.75

TABLE 29

EXAMPLES OF 392XO POI OBJECTIVES MATCHED WITH SPECIALTY JOB GROUP DATA (PERCENT FIRST-ENLISTMENT PERSONNEL PERFORMING)

POI OBJECTIVE	SELECTED MATCHED	SELECTED MATCHED TASKS	TNG	PLANS AND SCHEDULING PERSONNEL	TIME CHANGE MONITORS	TCT0 MONITORS	CEMS DOC PERSONNEL
IVIC.	M425	M425 COMPUTE FLEET TIME HOURS	4.20	20	0	0	9
IVJE.	M430	COMPUTE OR DETERMINE AIRCRAFT OR OR MISSILE EQUIPMENT CAPABILITIES	2.80	Ξ	O	ల	Q
IY2D.	K351	\circ	4.21	74,	4	12	19
	K3/0	KEVIEW SCHEDULING EFFECTIVENESS DATA	4.07	48	0	15	19
IV2F.	T390	DEVELOP MONTHLY UTILIZATION OR MAINTENANCE SCHEDULES FOR AEROSPACE VEHICLES	5.71	58	4	0	ო
V1D.	N461 N459	UPDATE EQUIPMENT OPERATING TIMES USING REMOTE DEVICES UPDATE CURRENT STATUS OF	4.98	35	50	12	69
		OPERATIONAL EVENTS USING REMOTE DEVICES	4.07	21	ω	15	. 58

* Mean TE Rating is 1.59 and Standard Deviation is 1.75

senior NCOs in the career ladder feel some type of training in these areas is appropriate. Given the low percentages of first-job and first-enlistment personnel performing the matched tasks, however, this training might best be removed from the resident course and made a part of a formal OJT program.

Five nonsupervisory tasks which were performed by over 30 percent of either first-job or first-enlistment personnel were not matched to the POI. These tasks, along with the percent members performing and TE data, include:

		1ST J0B	1ST ENL	TNG EMP*
L407	Prepare inspection packages	3 2	40	6.05
L375	Adjust schedules to meet emergency or priority maintenance requirements	33	42.	5.50
L376	Adjust schedules to meet emergency or priority optional or flying			
	requirements	23	31	5.34
	Maintain manual records of recurring inspection times or dates	32	34	4.75
B 23	Direct development or maintenance of status boards, graphs, or charts	26	30	3.89

^{*} Mean TE Rating is 1.59 and Standard Deviation is 1.75.

Training personnel should review these tasks to determine the necessity for training and the most effective method to accomplish it.

AFSC 392XO MAJCOM AND CONUS-OVERSEAS GROUP COMPARISONS

Tasks performed and background data for personnel of the major commands (MAJCOM) with the largest 392XO populations were compared to determine whether job content varied as a function of MAJCOM assignment. Table 30 displays the relative percent time spent by 392XO personnel across these MAJCOMs by duties.

Generally, the largest percentage of duty time and 392XO resources in each MAJCOM are committed to the performance of tasks pertaining to the planning and scheduling of maintenance, together with various documentation functions (Duties K, L, and N). There is, however, a marked difference between commands in terms of involvment in production control activities (Duty O). While SAC, MAC, ATC, and AFSC personnel devote a fairly large amount of time to production control functions, TAC, USAFE, and PACAF personnel do not. This division represent one difference between commands operating under a centralized (SAC, MAC, ATC, and AFCC) versus decentralized (TAC, USAFE, and PACAF) maintenance concept (NOTE: SAC was still operating under the

TABLE 30

RELATIVE PERCENT TIME SPENT ON DUTIES BY 392XO MAJOR COMMAND GROUPS (PERCENT MEMBERS)

Tha	DUTIES	TAC (N=434)	SAC (N=279)	MAC (N=218)	USAFE (N=182)	ATC (N=81)	PACAF (N=53)	AFSC (N=50)
Α.	ORGANIZING AND PLANNING	₹	ĸ	ഹ	က	ĸ	ω	Ó
œ,	DIRECTING AND IMPLEMENTING	7	6	თ	2	_	=	33
ن	INSPECTING AND EVALUATING	4	**	4	Ŋ	9	гo	∞
<u>.</u>	TRAINING	m	က	4	4	33	7	m
ين س	PREPARING, UPDATING, AND FILING FORMS,							
	RECORDS, AND REPORTS	5	4	4	S.	₩.	₹	LO.
Ŀ	PERFORMING AEROSPACE VEHICLE DATA FUNCTIONS	4	ന	4	Ŋ	m	ო	4
9	PERFORMING COMMUNICATIONS ELECTRONIC							
	METEOROLOGICAL (CEM) FUNCTIONS	*	*	*	*	*	*	*
Ŧ.	PERFORMING GENERAL CALCULATIONS AND ANALYSIS							
	FUNCTIONS	*	*	*	*	*	*	*
	PERFORMING FILES MAINTENANCE FUNCTIONS	*	*	*	*	*	*	*
<u>.</u>	PERFORMING SYSTEMS ANALYSIS AND DESIGN							
	FUNCTIONS	*	*	*	*	*	*	*
₹	MAINTAINING MAINTENANCE DOCUMENTATION AND							
	RECORDS	9	72	Ξ	15	ന	7	7
نـ	PLANNING AND SCHEDULING MAINTENANCE	27	5 6	24	22	15	27	9
ž	COMPUTING AND DETERMINING INFORMATION	_	2	*		 -	~	~
z	MANAGING AND UPDATING AUTOMATED MAINTENANCE							
	RECORDS	1	15	10	15	7	12	9
င်	PROCESSING SHOP WORK	ۍ س	16	53		23	9	8
۳.		,	7	m	7	7	က	ις,
· 0	PERFORMING MOBILITY SUPPORT FUNCTIONS	*	*	*	*	*	*	*

* Less than 1 percent

centralized maintenance concept at the time this survey was in the field). As noted previously in the SPECIALTY JOBS section of this report, however, all references to production control activities (excluding PME responsibilities) have been deleted from the AFR 39-1 Specialty Descriptions for the 392X0 career ladder, effective 30 April 1987. As such, the differences currently noted between MAJCOM groups with regard to production control activities should disappear over time.

A similar comparison of 392X0 5-skill level CONUS and overseas groups revealed little difference in the jobs performed by these groups.

SECTION IV

JOB SATISFACTION ANALYSIS

An examination of the job satisfaction indicators of various experience groups can give career ladder managers a better understanding of some of the factors which may affect the job performance of airmen in the career ladder. Five attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in the survey booklet to provide indications of job satisfaction. Table 31 presents job satisfaction data for the specialty jobs discussed in the SPECIALTY JOBS section of this report. An examination of these data can show how overall job satisfaction may be influenced by the type of jobs performed. Another view of job satisfaction data is reflected in Tables 32 and 33, where data for AFSC 391XO and AFSC 392XO TAFMS groups (respectively) are displayed, together with data from a comparative sample of Direct Support career ladders surveyed in 1986. These data can give a relative measure of how the job satisfaction of AFSC 391XO and 392XO personnel compares with that of other similar AF specialties. Finally, an indication of how job satisfaction perceptions within the 391XO and 392XO career ladders have changed over time is provided in Table 34 (391X0) and Table 35 (392X0). In Table 34, AFSC 391XO TAFMS group data for the 1987 survey respondents is presented with data from respondents to the last occupational survey of the career ladder, published in October 1979. These previous survey data reflect responses from former A-shred (AEROSPACE VEHICLE) and B-shred (COMMUNICATIONS-ELECTRONICS) personnel, while the current survey data reflect the fact that these shredouts were deleted in the October 1982 restructuring of the 39XXX career field. Table 35 presents 392XO job satisfaction data for current and previous survey time-in-career-field (TICF) groups, as the 392XO career ladder was entered laterally at the time of the October 1978 occupational survey.

Overall, the job satisfaction indicators for specialty job group members in the 39XXX career field were generally very good, with at least 50 percent of the personnel in 'most all specialty job groups identified responding positively to the indicators listed. Notable exceptions among the 391XO job groups identified included C-E STAFF ANALYSTS and OPERATIONAL TEST AND

participal properties of the control of the properties of the properties of the control of the c

TABLE 31

JOB SATISFACTION INDICATORS BY CAREER LADDER STRUCTURE GROUPS (PERCENT MEMBERS RESPONDING)*

C-E STAFF ANALYSTS (N=17)	53 18 29	53 47	53	75 F 67 60 60	22	77	11
OPERATIONAL TEST AND EVAL TEAM ANALYSTS (N=10)	90 10 0	80 20	40 60	00 C	20	70	10
HQ AFOTEC/ USAFTAWC PERSONNEL (N=5)	150)00 0	80 20	00L 0	40	40	22
SPECIAL STUDIES ANALYSTS (N=6)	100	83 17	83 17	83 0 17	Ö	83	17
MMICS/CAMS FUNCTIONAL SYS MGRS (N=16)	94 0	8 8 12	63 37	88 0 12	38	50	12
DATA BASE MANAGERS (N=161)	į	83 17	71 29	27, 8 61	o,	64	27
AEROSPACE VEHICLE MAINTENANCE DATA SYS ANALYSTS (N=210)	68 19 13	78 22	66 34	64 12 24	4	89	28
	EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	REENLISTMENT INTENTIONS: WILL RETIRE WILL/PROBABLY WILL	REENLIST WILL NOT/PROBABLY	WILL NOT REENLIST

* Columns may not add to 100 percent due to nonresponse or rounding

TABLE 31 (CONTINUED)

JOB SATISFACTION INDICATORS BY CAREER LADDER STRUCTURE GROUPS (PERCENT MEMBERS RESPONDING)*

SUPERVISORS/ MANAGERS (N=333)							
SUPERVI MANAGER (N=333)		85 14	79	69 8 23	26	67	12
TECHNICAL TRAINING INSTR (N=23)	% 60 4	-66 6	87 13	83 4 13	<u>13</u>	દુ	4
MAJCOM AEROSPACE VEHICLE DISTR OFFICERS (N=5)	000	00L 0	60 40	001 0	20	80	0
PRODUCTION CONTROL PERSONNEL (N=218)	65 20 14	31 8	59 1-	62 13 24	15	61	24
CEMS DOC PERSONNEL (N=85)	79 13 8	8 15	84 16	73 11 16	ເກ	68	27
TCTO MONITORS (N=62)	74 19 5	79 19	77 21	76 10 11	52	7.1	24
TIME CHANGE MONITORS (N=36)	75 19 3	86 11	18 19	88.5	9	69	25
PLANS AND SCHEDULING PERSONNEL (N=560)	25.00	85 15	83 17	71 22 22	10	64	25
EXPRESSED JOB INTEREST:	INTERESTING SO-SO DULL	PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	REENLISTMENT INTENTIONS:	WILL/PROBABLY WILL REENLIST	WILL NOT REENLIST
EXI		PE	E E		밀	Z 2	

* Columns may not add to 100 percent due to nonresponse or rounding

TABLE 32

and this course desired between cases and desired courses course again a course desired between

COMPARISON OF JOB SATISFACTION INDICATORS BY 391XO AND COMPARATIVE SAMPLE GROUPS (PERCENT MEMBERS RESPONDING)*

	1-AR MAC TAFMS	TAFMS	49-96 MOS TAFMS	S TAFMS	97+ MOS TAFMS	TAFMS
	391X0 (N=165)	COMP SAMPLE** (N=977)	391X0 (N=211)	COMP SAMPLE** (N=413)	391X0 (N=405)	COMP SAMPLE** (N=750)
EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	70 15 15	57 22 20	70 81 11	22 20 20	78 11	69 17 13
PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	80 20	62 36	73	33 93 93	18	75
PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	99 1.	79 20	63 37	68 32	69 30	70 29
SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	69 12 19	60 15 24	64 8 28	58 30 30	65 10 25	64 10 25
REENLISTMENT INTENTIONS: WILL RETIRE WILL/PROBABLY WILL REENLIST WILL NO:/PROBABLY WILL NOT REENLIST	37	- 34	68 30 30	1 72 26	23 12	17.8

* Columns may not add to 100 percent due to nonresponse or rounding ** Comparative sample of Direct Support career ladders surveyed in 1986 (Includes AFSCs 552X2 and 611X0) - Less than 1 percent

TABLE 33

COMPARISON OF JOB SATISFACTION INDICATORS BY 392XO AND COMPARATIVE SAMPLE GROUPS (PERCENT MEMBERS RESPONDING)*

	000	TAEMS	M 95-67	49-95 MOS TAFMS	97+ MOS TAFMS	TAFMS
	392X0 SAMP (N=5)	COMP SAMPLE** (N=977)	392X0 (N=158)	COMP SAMPLE** (N=413)	392X0 (N=648)	COMP SAMPLE** (N=750)
EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL	70 20 20 70 70 70 70 70 70 70 70 70 70 70 70 70	57 22 20	70 18 10	25 20 20 20	72 16 11	69 17
PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	79 20 20	62 36	82	୨୧୯ ୧୯୯	79 20	75
PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	74 26	79	23	68 32	76 24	70
SENSE OF ACCOMPLISHMENT FROM JOB:	۲7 19	60 15 24	68 10 20	30 2 30 30 30 4	67 2 24	10 25
REENLISTMENT INTENTIONS: WILL RETIRE WILL/PROBABLY WILL REENLIST WILL NOT/PROBABLY WILL NOT REENLIST	1 28 7	१ के क	27	1 72 26	25 64 10	17 47 8

* Columns may not add to 100 percent due to nonresponse or rounding ** Comparative sample of Direct Support c.reer ladders surveyed in 1986 (Includes AFSCs 552X2 and 611X0) - Less than 1 percent

TABLE 34

COMPARISON of 391XO JOB SATISFACTION INDICATORS FOR CURRENT AND PREVIOUS SURVEY TAFMS GROUPS (PERCENT MEMBERS RESPONDING)*

97+ MOS TAFMS	1979	391X0A 391X08 (N=224) (N=63)	59 59 17 14 22 21	69 71 29 27	54 44 40	48 14 11 37 30	** 63 **
97.	1987	(N=405)	728	81 19	99 30 30	65 10 25	23 455 13
TAFMS	979	391X0B (N=31)	55 16 16	48 52	39 58	29 42 42	* 4 u * rv c
49-96 HOS TAFMS	19	391X0A (N=150)	P 12 12	3 B	4.72 6.53	42 17 39	* 15 0 * 15 0
4	1987	(N=211)	70 18 11	73	37	64 3 28	689
FMS	6	391X0B (N=18)	33 17 39	မွာ ကို	75 8 8	28 11 61	* 010 * 011
1-48 MOS TAFMS	1979	391X0A (N=68)	49 24 27	63 37	57 43	52 27 27	* 67 C
1- -	1987	(N=165)	Sion	80 20	69 31	99 20 10 10	29
		EXPRESSED JOB INTEREST:	INTERESTING 50-S0 DULL	PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	MEENLISTMENT INTENTIONS: WILL RETIRE WILL/PROSABLY WILL REENLIST

^{*} Columns may not add to 100 percent due to nonresponse or rounding ** Data not collected in 1979 - Less than 1 percent

TABLE 35

COMPARISON OF 392XO JOB SATISFACTION INDICATORS FOR CURRENT AND PREVIOUS SURVEY TICF GROUPS (PERCENT MEMBERS RESPONDING)*

	1-48 MC	1-48 MOS TICF	49-96 MOS TICF	S TICF	97+ MOS TICF	S TICF
,	1987 (N=715)	1978 (N=918)	1987 (N=248)	1978 (N=372)	1987 (N=363)	1978 (**=N)
EXPRESSED JOB INTEREST:	(21 / 11)	(2)	(0.3-4)		500 41	
INTERESTING	70	20	70	70	73	* *
50-50 DULL	<u> </u>	4 [02 01	211	2=	* *
PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	80 20	78 20	81 91	78 20	79 20	* *
PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	73 26	75 23	76 24	71 26	76 22	* *
SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL	0,6	94	67	64 10	67	* * †
RISSATISFIED REENLISTMENT INTENTIONS: WILL RETIRE WILL/PRGBABLY WILL REENLIST WILL NOT/PROBABLY WILL NOT REENLIST	56 36 36	- * ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	75 10	24 24 24	36 36 10	* * * *

* Columns may not add to 100 percent due to nonresponse or rounding ** Data not collected in 1978

EVALUATION TEAM ANALYSTS, while responses from PRODUCTION CONTROL PERSONNEL (a 392XO job group) were markedly different than those responses from other 392XO job groups identified. Specifically, responses from the C-E STAFF ANALYSTS were much lower in terms of expressed job interest, perceived use of talents and training, and sense of accomplishment gained from the job, while OPERATIONAL TEST AND EVALUATION TEAM ANALYSTS responded in lower numbers to perceived use of training than personnel in any of the 39XXX career field job roups identified. Additionally, PRODUCTION CONTROL PERSONNEL consistently responded in lower numbers to all job satisfaction indicators when compared to personnel in the remaining 392XO job groups. Finally, responses from TECHNICAL TRAINING INSTRUCTORS and SUPERVISORS/MANAGERS (groups reflecting a mixture of 391XO and 392XO personnel) were basically equivalent to responses from the AFSC-specific jobs identified.

A comparison of 391X0 TAFMS group data to a comparative sample of Direct Support career ladders surveyed in 1986 revealed that, while positive responses for most job satisfaction indicators were equal to or higher than the comparative sample, positive responses for perceived use of training were somewhat lower for all TAFMS groups identified (see Table 32). Also, 391X0 personnel in all TAFMS groups expressed a slightly lower intention to reenlist. A similar comparison of 392X0 TAFMS group data (Table 33) indicates that positive responses for the majority of job satisfaction indicators were again equal to or higher than the comparative sample, the exceptions being limited to a slightly lower perception in the use of training by first-enlistment (1-48 MOS TAFMS) personnel and a lower expressed intention to reenlist for all TAFMS group members.

The positive trend for job satisfaction indicators continues in Table 34, where positive responses for 391XO TAFMS group data for 1987 survey respondents are substantially higher in all categories than responses from the 1979 survey respondents. Since the 1987 data were collected after the October 1982 restructuring of the 39XXX career field, the increase in these numbers tends to indicate that, from a job satisfaction standpoint, 391XO career ladder members appear to have benefitted from the restructuring effort. As stated previously, the 392XO career ladder was entered laterally at the time of the 1978 survey; thus, all data were displayed in terms of TICF groups. With this in mind, Table 35 reveals that positive responses to job satisfaction indicators for 392XO personnel in the 1987 survey generally are equal to or higher than responses from the 1978 survey respondents, with exceptions being limited to a slightly lower perceived use of training and expressed intention to reenlist for the 1-48 MOS TICF group. These lower numbers probably are due to the fact that 73 percent of the 1987 1-48 MOS TICF group members are in their first enlistment, as opposed to only 6 percent of the 1978 1-48 MOS TICF group members.

IMPLICATIONS

The purpose of this survey was twofold: (1) to gather data for use in evaluating the current training programs for the 391XO and 392XO career ladders in light of the October 1982 restructuring of the 39XXX career field, and (2) to assess the utilization of former AFSC W-392XO personnel.

In terms of training, the STS and Tentative PUI for both career ladders require a thorough review. Several elements of the 391XO STS were not supported by survey data, primarily in areas dealing with statistical methods of data analysis and organizational capabilities. Correspondingly, several POI objectives were not supported by survey data, and several tasks were not referenced to either document that require review. While the 392XO STS was generally well supported by survey data, several POI objectives were not. Due to the diversity found in the jobs performed by first-enlistment personnel in both career ladders, an alternative approach for reviewing the POIs was suggested.

An analysis of the current utilization of former AFSC W-392XO files maintenance (data base management) personnel revealed that, while the majority of these members have transitioned into the 391XO career ladder, a substantial number are still working in jobs specific to the 392XO career ladder and are reporting a 392XO DAFSC. As such, career field managers should closely review the current utilization of these personnel.

Overall, survey data clearly support the current classification structure. No overlap was found in the technical jobs performed by 391XO and 392XO personnel; only supervisory/managerial and training responsibilities were found to be common.

APPENDIX A

SELECTED REPRESENTATIVE TASKS

PERFORMED BY

CAREER LADDER STRUCTURE GROUPS

TABLE I

GROUP ID NUMBER AND TITLE: GRPO83 - AEROSPACE VEHICLE MAINTENANCE DATA

SYSTEMS ANALYSTS CLUSTER

GROUP SIZE: 210 PERCENT OF SAMPLE: 10% AVERAGE GRADE: E-4 AVERAGE TICF: 52 MONTHS

AVERAGE TAFMS: 84 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
F 147	COMPILE DATA FOR AIRCRAFT SUMMARIES	76
	PREPARE MAINTENANCE SUMMARIES	62
F146		62
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS,	
	GRAPHS, OR CHARTS	61
F168	PREPARE AIRCRAFT STUDIES OR BRIEFINGS	61
	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA	61
F182		
	TRENDS OR PROBLEMS	59
F172	PREPARE WRITTEN NARRATIVES ON AIRCRAFT MAINTENANCE	
	SUMMARIES	58
N454	OPEN OR CLOSE REMOTE DEVICES	51
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
	EXCLUDING TRAINING REPORTS	47
K370	REVIEW SCHEDULING EFFECTIVENESS DATA	45
K368	REVIEW OR SPOT CHECK MAINTENANCE DATA COLLECTION (MDC)	
	SOURCE DOCUMENTS FOR ACCURACY	40
	EVALUATE AEROSPACE VEHICLE EQUIPMENT STATUS DATA	38
E118	PREPARE AIRCRAFT MISSION ANALYSIS REPORTS	36
F187	REVIEW NOT MISSION CAPABLE MISSILE (NMCM) DELAYS OR	
	DURATIONS FOR CORRECTIVE ACTIONS	35
1,207	GATHER OPERATIONAL DATA, SUCH AS FLYING HOURS, FROM	
	OTHER AGENCIES	34
M421		
	SUCH AS MEAN TIME BETWEEN FAILURE (MTBF)	33
E126		32
B 19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	
	UTILIZATION	31
E 116	PREPARE AF FORMS 2422 (MAINTENANCE ANALYSIS REFERRAL)	31
	CONDUCT BRIEFINGS ON AIRCRAFT MAINTENANCE PERFORMANCE	
F 163	EVALUATE AEROSPACE VEHICLE EQUIPMENT UTILIZATION DATA	26

TABLE II

GROUP ID NUMBER AND TITLE: GRP171 - DATA BASE MANAGERS CLUSTER

GROUP SIZE: 161 PERCENT OF SAMPLE: 8% AVERAGE GRADE: E-5 AVERAGE TICF: 60 MONTHS

AVERAGE TAFMS: 119 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
	NOTIFY SYSTEM USERS OF STATUS OF UNSCHEDULED DOWNTIME FOR	
	SYSTEMS, SUCH AS MMICS	96
1309		
	USERS	93
1324	MAINTAIN SYSTEMS ADVISORY NOTICE (SAN) FILES	86
1321	INSTRUCT SYSTEM OPERATORS ON SYSTEM CHANGES OR PROBLEMS,	
	SUCH AS EXTENDED DOWNTIME PROCEDURES	84
1311		80
I334	VERIFY COMPUTER INPUTS FROM USERS	78
I307	COORDINATE OPERATION OR SCHEDULING OF REMOTE LINE	
	PRINTERS WITH USERS	73
I378	INITIATE PERIODIC OFF-BASE REPORTS, SUCH AS AUTOMATED	
	REPORTS TO COMMAND OR HEADQUARTERS	72
1316	INITIATE DELETE HISTORY (DLH) PROCEDURES	7 1
I328	PERFORM OPERATOR MAINTENANCE ON SYSTEM HARDWARE, SUCH AS	
	REMOTES OR PRINTERS	68
1320	INITIATE, PREPARE, OR REVIEW DIFFICULTY REPORTS (DIREP)	68
1331	PROCESS TRANSACTIONS TO OBTAIN PRINTS OF SUBSYSTEM	
	RECORDS	66
1305	CONSTRUCT AIR FORCE ONLINE DATA SYSTEM (AFOLDS)	
	INQUIRIES	62
1323		61
1303		
	AS UVR, MIK, OR FPD	60
1314	· ·	·
	TO EXISTING PRODUCTS, SUCH AS AFOLDS PROGRAMS	58
1329		
	PROGRAMS, SUCH AS FILE UPDATE (FUD) OR "PSEUDO" PROGRAMS	57
1319		
	(DAR)	57
1299	ANALYZE BEGINNING-OF-DAY (BOD) FILE DENSITY REPORTS	43
1301		• •
·	CODE: RJP) TO IDENTIFY AREAS REQUIRING TRAINING	41

TABLE III

GROUP ID NUMBER AND TITLE: GRP380 - MMICS/CAMS FUNCTIONAL SYSTEMS

MANAGERS CLUSTER

GROUP SIZE: 16
GRADE: E-7

PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TICF: 104 MONTHS

AVERAGE TAFMS: 230 MONTHS

TACKC		PERCENT MEMBERS
TASKS		PERFORMING
J338	COORDINATE SYSTEM DEVELOPMENT WITH COMPUTER PROGRAMMERS, FUNCTIONAL MANAGERS, OR OTHER ANALYSTS	94
J335		7.
	MODIFICATIONS	94
J345		88
B26	DRAFT CORRESPONDENCE	88
C68	EVALUATE SUGGESTIONS	81
J348		
	OR CONVERSIONS, SUCH AS MONTHLY RELEASES OR SAN	75
	DEVELOP PROCEDURES FOR OPERATING SYSTEMS	75
	INITIATE, PREPARE, OR REVIEW DIFFICULTY REPORTS (DIREP)	75
J346		
	PROPOSALS	75
	DESIGN OR WRITE PROGRAMS FOR SYSTEMS OTHER THAN MMICS	69
B35	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	63
1300	ANALYZE OUTPUT FROM SYSTEMS TESTS, SUCH AS ENVIRONMENTAL	
	SYSTEMS TESTS	56 50
	EDIT OR TEST PROGRAMS IN MMICS	50
	IDENTIFY OR ANALYZE INTERNAL FILE ERRORS	5 0
1324		50
	CONDUCT SYSTEMS STUDIES	50
C5/	EVALUATE SOURCE DOCUMENTS, OTHER THAN TO	44
J34 I	DEVELOP DECISION LOGIC TABLES OR FLOW CHARTS FOR SYSTEM	4.4
1033	STUDIES CORRECT AUTORNAL FILE FROODS	44
1311	CORRECT INTERNAL FILE ERRORS	44

TABLE IV

GROUP ID NUMBER AND TITLE: GRP538 - SPECIAL STUDIES ANALYSTS INDEPENDENT

JOB TYPE

GROUP SIZE: 6
GRADE: E-5, E-6
AVERAGE TAFMS: 115 MONTHS PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TICF: 66 MONTHS

		PERCENT MEMBERS
TASKS		PERFORMING
H250	CALCULATE MEAN DEVIATIONS USING COMPUTERS	100
H275	CALCULATE STANDARD DEVIATION USING COMPUTERS	100
H242	CALCULATE LEVELS OF SIGNIFICANCE APPLYING PARAMETRIC	
	TESTS USING COMPUTERS	100
H238	CALCULATE LEVELS OF SIGNIFICANCE APPLYING NONPARAMETRIC	
	TESTS USING COMPUTERS	100
B26	DRAFT CORRESPONDENCE	700
F165	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA	100
F168	PREPARE AIRCRAFT STUDIES OR BRIEFINGS	83
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
	EXCLUDING TRAINING REPORTS	83
F182	REVIEW FULL MISSION CAPABLE RATES (FMCR) FOR DEVELOPING	
	TRENDS OR PROBLEMS	83
H254	CALCULATE MEANS, MEDIANS, OR MODES USING COMPUTERS	83
F147	COMPILE DATA FOR AIRCRAFT SUMMARIES	83
H246		€7
M430	COMPUTE OR DETERMINE AIRCRAFT OR MISSILE EQUIPMENT	
	CAPABILITIES	67
E116	PREPARE AF FORMS 2422 (MAINTENANCE ANALYSIS REFERRAL)	67
H279	CALCULATE STANDARD ERRORS OF MEANS USING COMPUTERS	67
M438	COMPUTE OR DETERMINE MAN-HOUR UTILIZATION FACTORS	67
H290	CONSTRUCT FREQUENCY DISTRIBUTION GRAPHS	67
M429	COMPUTE MTBF	67
1305		_
	INQUIRIES	67
	PRESENT BRIEFINGS TO EXPLAIN ADVERSE TRENDS	50
H230		
	PRODUCT MOMENT CORRELATION METHODS (PMCM) BY COMPUTERS	50
H288	CONSTRUCT CONTROL CHARTS FOR AVERAGES	50

TABLE V

GROUP ID NUMBER AND TITLE: GRP435 - HQ AFOTEC/USAFTAWC PERSONMEL

INDEPENDENT JOB TYPE
PERCENT OF SAMPLE: LESS THAN 1% GROUP SIZE: 5
GRADE: E-7, E-8

AVERAGE TICF: 194 MONTHS

AVERAGE TAFMS: 226 MONTHS

7401/0		PERCENT MEMBERS
TASKS		PERFORMING
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, EXCLUDING TRAINING REPORTS	100
M423		100
H254	CALCULATE MEANS, MEDIANS, OR MODES USING COMPUTERS	100
	CALCULATE LINES OF REGRESSION USING COMPUTERS	100
	CALCULATE STANDARD DEVIATION USING COMPUTERS	100
	CALCULATE STANDARD ERRORS OF MEANS USING COMPUTERS	100
H238		100
11230	TESTS USING COMPUTERS	100
M424		100
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OPERABLE STATUS	80
1430	COMPUTE OR DETERMINE AIRCRAFT OR MISSILE EQUIPMENT	
	CAPABILITIES	80
H283		80
C52	COMPILE DATA TO EVALUATE ENGINEERING CHANGES	6 0
M433		
	EQUIPMENT AVAILABILITIES	6 0
F 166	FORECAST AEROSPACE VEHICLE COMPONENT OR SYSTEM FAILURES	60
	COMPUTE MEAN TIME BETWEEN MAINTENANCE (MTBM)	60
M428	COMPUTE MEAN TIME BETWEEN OCCURRENCE (MTBO) OF DOWNTIME	
	FAILURES	60
H258	CALCULATE PROBABILITY DISTRIBUTIONS BY COMPUTATIONAL	
	METHODS USING COMPUTERS	60
J337	CONDUCT SYSTEMS STUDIES	60
	COMPUTE OR DETERMINE MAN-HOUR COST FACTORS	60
J335	AHALYZE PROPOSALS OR SUGGESTIONS FOR SYSTEM	
	MODIFICATIONS	6 0
J338		
	FUNCTIONAL MANAGERS, OR OTHER ANALYSTS	6 0
C74		60

TABLE VI

GROUP ID NUMBER AND TITLE: GRP230 - OPERATIONAL TEST AND EVALUATION TEAM

ANALYSTS INDEPENDENT JOB TYPE
PERCENT OF SAMPLE: LESS THAN 1% GROUP SIZE: 10

GRADE: E-6 AVERAGE TICF: 136 MONTHS

AVERAGE TAFMS: 166 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
M421	ASSEMBLE DATA OR RECORDS FOR COMPUTATION OF STATISTICS,	
	SUCH AS MEAN TIME BETWEEN FAILURE (MTBF)	90
Ç76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
	EXCLUDING TRAINING REPORTS	90
M427	COMPUTE MEAN TIME BETWEEN MAINTENANCE (MTBM)	90
M429	COMPUTE MTBF	90
11424	CALCULATE MEAN TIME TO RESTORE (MTTR) EQUIPMENT TO	
	OPERABLE STATUS	9 0
E 139	UPDATE COMPUTER LISTINGS	70
B26	DRAFT CORRESPONDENCE	70
	PREPARE AIRCRAFT STUDIES OR BRIEFINGS	60
	COMPILE DATA TO EVALUATE ENGINEERING CHANGES	50
	CALCULATE AIRCRAFT OR MISSILE EQUIPMENT OR SYSTEMS	<u>-</u> -
	RELIABILITY	50
F 165	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA	40
J338	COORDINATE SYSTEM DEVELOPMENT WITH COMPUTER PROGRAMMERS,	• •
0000	FUNCTIONAL MANAGERS, OR OTHER ANALYSTS	40
.1340	DESIGN OR WRITE PROGRAMS FOR SYSTEMS OTHER THAN MMICS	40
E134	PREPARE MAINTENANCE DATA COLLECTION REPORTS	40
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS,	40
DLJ	GRAPHS, OR CHARTS	40
	UNACIO, UN CHANIO	70

TABLE VII

GROUP ID NUMBER AND TITLE: GRP192 - C-E STAFF ANALYSTS INDEPENDENT JOB TYPE GROUP SIZE: 17 PERCENT OF SAMPLE: LESS THAN 1%

GRADE: E-6 AVERAGE TICF: 126 MONTHS

AVERAGE TAFMS: 154 MONTHS

TASKS	DRAFT CORRESPONDENCE REVIEW CEM EQUIPMENT STATUS REPORTS FOR ACCURACY EVALUATE CEM EQUIPMENT STATUS REPORTS REVIEW CEM INVENTORY REPORTS FOR ACCURACY CALCULATE CEM EQUIPMENT RELIABILITY	PERCENT MEMBERS PERFORMING
B26	DRAFT CORRESPONDENCE	94
G223	REVIEW CEM EQUIPMENT STATUS REPORTS FOR ACCURACY	82
G211	EVALUATE CEM EQUIPMENT STATUS REPORTS	82
G226	REVIEW CEM INVENTORY REPORTS FOR ACCURACY	76
		76
G219	PREPARE CEM STUDIES	76
G201	COMPILE DATA FOR CEM MAINTENANCE SUMMARIES PREPARE WRITTEN NARRATIVES OF CEM MAINTENANCE SUMMARIES	71
G220 B35	PREPARE WRITTEN NARRATIVES OF CEM MAINTENANCE SUMMARIES INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	71
E 130	PREPARE GROUND CEM EQUIPMENT STATUS DATA REPORTS	71
G207	CORRECT CEM SOURCE SUCUMENT ERRORS	71
C72	MAKE STAFF ASSISTANCE VISITS	6 5
G194	CALCULATE CEM MISSION EQUIPMENT AVAILABILITY	59
M421	ASSEMBLE DATA OR RECORDS FOR COMPUTATION OF STATISTICS,	
	SUCH AS MEAN TIME BETWEEN FAILURE (MTBF)	59
B22	DEVELOP WORK METHODS OR PROCEDURES	59
C76	DEVELOP WORK METHODS OR PROCEDURES WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
	EXCLUDING TRAINING REPORTS	53
	CALCULATE CEM SYSTEMS RELIABILITY	53
G216	PREPARE CEM BRIEFINGS, EXCLUDING MAINTENANCE ANALYSIS	
	CAPABILITIES	47
G224	REVIEW CEM EQUIPMENT UTILIZATION OR STATUS REPORTS FOR	
	INCLUSION OF REQUIRED INFORMATION	47
B19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR UTILIZATION	47
B21		
	MATTERS	47
A13	PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS	47
C68	EVALUATE SUGGESTIONS	41

TABLE VIII

GROUP ID NUMBER AND TITLE: GRP206 - PLANS AND SCHEDULING PERSONNEL CLUSTER GROUP SIZE: 560 PERCENT OF SAMPLE: 26% GROUP SIZE: 560
GRADE: E-4, E-5
AVERAGE TAFMS: 102 MONTHS AVERAGE TICF: 60 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
L398	INITIATE SCHEDULED INSPECTIONS	84
	ASSIGN INDIVIDUAL JOB CONTROL NUMBERS FOR PLANNED	
	MAINTENANCE	82
1.395	DISTRIBUTE MAINTENANCE PLANS OR SCHEDULES	81
	ADJUST SCHEDULES TO MEET EMERGENCY OR PRIORITY	
	MAINTENANCE REQUIREMENTS	79
L414	SCHEDULE ACCOMPLISHMENT OF TCTO	78
L382	CONDUCT OR ATTEND DAILY MAINTENANCE PLANNING MEETINGS	78
	LOAD DISCREPANCIES INTO SYSTEM RECORDS	76
1.418	SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS	72
L406		
	BOARDS OR CHARTS	72
L407	PREPARE INSPECTION PACKAGES	72
L384	COORDINATE FLYING/UTILIZATION OR MAINTENANCE SCHEDULING	
	CHANGES WITH ACTION AGENCIES	71
L394	DEVELOP WEEKLY UTILIZATION OR MAINTENANCE SCHEDULES FOR	
	AEROSPACE VEHICLES	70
L410	PREPLAN DAILY MAINTENANCE	68
L415	SCHEDULE AEROSPACE VEHICLE INSPECTIONS	67
L390	DEVELOP MONTHLY UTILIZATION OR MAINTENANCE SCHEDULES FOR	
	AEROSPACE VEHICLES	64
N444	FORECAST INSPECTION OR TIME CHANGE REQUIREMENTS USING	
	REMOTE DEVICES	64
L385	COORDINATE MAINTENANCE REQUIREMENTS WITH OPERATIONS	63
	PROJECT MAINTENANCE REQUIREMENTS	62
M426	COMPUTE HOURS TO NEXT PHASE	58
	REVIEW SCHEDULING EFFECTIVENESS DATA	54
L404	PLAN CORROSION CONTROL SCHEDULES	53

TABLE IX

GROUP ID NUMBER AND TITLE: GRP420 - TIME CHANGE MONITORS INDEPENDENT

JOB TYPE

GROUP SIZE: 36 GRADE: E-3, E-4

PERCENT OF SAMPLE: 2% AVERAGE TICF: 37 MONTHS

AVERAGE TAFMS: 56 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
N454	OPEN OR CLOSE REMOTE DEVICES	100
K357	INITIATE TIME CHANGE ACTIONS	86
N444	FORECAST INSPECTION OR TIME CHANGE REQUIREMENTS USING	
	REMOTE DEVICES	86
N462	UPDATE INSPECTION OR TIME CHANGE REQUIREMENTS USING	
	REMOTE DEVICES	8 3
N448	LOAD INITIAL INSPECTION OR TIME CHANGE REQUIREMENTS INTO	
	SYSTEM RECORDS	83
K362		81
	UPDATE COMPUTER LISTINGS	67
	CONDUCT MANUAL RECORDS REVIEWS	53
	SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS	50
K358		
	DATES	47
N445	INPUT OR UPDATE CURRENT CONDITION STATUS OF ASSIGNED	
	EQUIPMENT USING REMOTE DEVICES	42
L378		4.0
	M/ INTENANCE	42
	INITIATE SCHEDULED INSPECTIONS	42
	UPDATE EQUIPMENT OPERATING TIMES USING REMOTE DEVICES	39
L407	PREPARE INSPECTION PACKAGES	36

TABLE X

GROUP ID NUMBER AND TITLE: GRP396 - TCTO MONITORS INDEPENDENT JOB TYPE

GROUP SIZE: 62 PERCENT OF SAMPLE: 3% AVERAGE TICF: 46 MONTHS

GRADE: E-4 AVERAGE TAFMS: 74 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
	REVIEW TCTO SYATUS REPORTS	001
	UPDATE TCTO CHANGES OR REPORTS	100
K374	VERIFY AUTOMATED TCTO STATUS REPORTS	9 8
N463 N451	UPDATE TOTO STATUS INFORMATION USING REMOTE DEVICES LOAD TIME COMPLIANCE TECHNICAL ORDER (TOTO) REQUIREMENTS	94
K366	INTO COMPUTER RECORDS REVIEW OR MONITOR DAILY STATUS OF TIME COMPLIANCE	94
	TECHNICAL ORDERS (TCTO) PROGRAMS	90
1403	PARTICIPATE IN MONTHLY TOTO KIT RECONCILIATION MEETINGS	90
N454	OPEN OR CLOSE REMOTE DEVICES	81
E 139	UPDATE COMPUTER LISTINGS	76
	SCHEDULE ACCOMPLISHMENT OF TCTO DETERMINE ITEMS REQUIRING MODIFICATION OR ACTION UNDER	66
0476		63
0477		61
L378	ON TCTO ACCOMPLISHMENT OF ON-SHELF SPARES ASSIGN INDIVIDUAL JOB CONTROL NUMBERS FOR PLANNED	55
	MAINTENANCE	44
	PREPARE REQUISITIONS FOR SUPPLIES OR EQUIPMENT	39
	REVIEW MASTER ID INPUTS	34
		34
E 142	UPDATE TECHNICAL ORDER FILES	34

TABLE XI

GROUP ID NUMBER AND TITLE: GRP453 - CEMS DOCUMENTATION PERSONNEL

INDEPENDENT JOB TYPE

GROUP SIZE: 85

GRADE: E-4, E-5

PERCENT OF SAMPLE: 4%

AVERAGE TICF: 53 MONTHS

AVERAGE TAFMS: 97 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
11/2//2		FEREDAMING
K373	UPDATE TOTO CHANGES OR REPORTS	95
N462		
	REMOTE DEVICES	93
N463	UPDATE TOTO STATUS INFORMATION USING REMOTE DEVICES	93
K366	REVIEW OR MONITOR DAILY STATUS OF TIME COMPLIANCE	
	TECHNICAL ORDERS (TCTO) PROGRAMS	89
N451	LOAD TIME COMPLIANCE TECHNICAL ORDER (TCTO) REQUIREMENTS	
	INTO COMPUTER RECORDS	88
K357		87
N448		
	SYSTEM RECORDS	<u>79</u>
1.414		73
K362	PREPARE "DUE TIME" ON NEWLY ADDED TIME CHANGE ITEMS	69
L418	SCHEDULE REPLACEMENT OF TIME CHANGE ITEMS	6 8
K354		66
L403	PARTICIPATE IN MONTHLY TOTO KIT RECONCILIATION MEETINGS	66
L378	ASSIGN INDIVIDUAL JOB CONTROL NUMBERS FOR PLANNED	CO
1 207	MAINTENANCE	59
L387	DETERMINE ITEMS REQUIRING MODIFICATION OR ACTION UNDER	59
N461	TIME COMPLIANCE TECHNICAL ORDERS (TCTO) UPDATE EQUIPMENT OPERATING TIMES USING REMOTE DEVICES	55 55
K353	CONDUCT AUTOMATED RECORDS REVIEWS	55 54
K356	INITIATE OR MAINTAIN MASTER ID LISTINGS	49
K358	MAINTAIN MANUAL RECORDS OF RECURRING INSPECTION TIMES OR	43
KOOO	DATES	47
k365		46
N445	INPUT OR UPDATE CURRENT CONDITION STATUS OF ASSIGNED	10
.,	EQUIPMENT USING REMOTE DEVICES	42
	·	

TABLE XII

GROUP ID NUMBER AND TITLE: GRP130 - PRODUCTION CONTROL PERSONNEL CLUSTER

GROUP SIZE: 218 PERCENT OF SAMPLE: 10% GRADE: E-4, E-5 AVERAGE TICF: 64 MONTHS

AVERAGE TAFMS: 107 MONTHS

sall extracts conserved institution sponson, seasons substitution seasons to proper a special seasons.

TASKS		PERCENT MEMBERS PERFORMING
0492	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM	
	PROCESSING TAG)	84
0501	RECONCILE DIFM LISTS, SUCH AS R-26 REPORT	69
0465 0471	ASSIGN JOB CONTROL NUMBERS FOR OFF-EQUIPMENT WORK COORDINATE DUE IN FROM MAINTENANCE (DIFM) PROCESSING	
	ACTIONS WITH UNITS OF SUPPLY SCHEDULE CALIBRATION OR MAINTENANCE OF PME ESTABLISH WORK PRIORITIES RESCHEDULE IN-SHOP MAINTENANCE ASSIGN PRIORITIES FOR SHOP REPAIR OR FABRICATION	67
0505	SCHEDULE CALIBRATION OR MAINTENANCE OF PME	66
A.7	ESTABLISH WORK PRIORITIES	62
0502	RESCHEDULE IN-SHOP MAINTENANCE	62
0466	ASSIGN PRIORITIES FOR SHOP REPAIR OR FABRICATION	61
0494	MAKE IN-PROGRESS WORK CHECKS	60
E 139	UPDATE COMPUTER LISTINGS	60
0493	MAKE ENTRIES ON DD FORMS 1348-1 (DOD SINGLE LINE ITEM	
	RELEASE/RECEIPT DOCUMENT)	56
0484		55
0487	INITIATE FOLLOW-UP ACTION ON WORK IN PROGRESS AT	
	MAINTENANCE WORKCENTERS	52
0503	REVIEW AWAITING PARTS (AWP) LISTINGS FROM BASE SUPPLY,	
	SUCH AS R-19 LISTS	52
	IDENTIFY REPARABLES	51
0474	COORDINATE MAINTENANCE TURNAROUND ACTIONS WITH UNITS OF	
	SUPPLY	50
	PERFORM VISUAL INSPECTION OF REPARABLES	46
0507	TRANSPORT EQUIPMENT TO, FROM, OR BETWEEN MAINTENANCE	
	WORKCENTERS	44
0490	MAINTAIN JOB CONTROL NUMBER REGISTERS	43
K356	INITIATE OR MAINTAIN MASTER ID LISTINGS	43
B23		
	GRAPHS, OR CHARTS	40
0480	DETERMINE PRIORITIES FOR INSPECTION OF PME EQUIPMENT	39

TABLE XIII

GROUP ID NUMBER AND TITLE: GRP472 - MAJCOM AVDOS INDEPENDENT JOB TYPE GROUP SIZE: 5 PERCENT OF SAMPLE: LESS THAN 1% GROUP SIZE: 5
GRADE: E-7, E-8

AVERAGE TICF: 155 MONTHS

AVERAGE TAFMS: 222 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
B26	DRAFT CORRESPONDENCE	100
L412	REVIEW AEROSPACE VEHICLE EQUIPMENT STATUS OR INVENTORY	
	DOCUMENTS FOR ACCURACY	100
F180	REVIEW AIRCRAFT INVENTORY REPORTS FOR ACCURACY	100
	UPDATE COMPUTER LISTINGS	100
F177 B35	REVIEW AEROSPACE VEHICLE STATUS REPORTS FOR ACCURACY INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	100
	SUBORDINATES	80
L397	GATHER OPERATIONAL DATA, SUCH AS FLYING HOURS, FROM	
	OTHER AGENCIES	80
F 160	ESTABLISH PROCEDURES FOR SUBMISSION OR RESUBMISSION OF	
	REPORTS WITH AEROSPACE VEHICLE MANAGERS	80
F 174		
	FOR ACCURACY	80
Ç76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
•.•	EXCLUDING TRAINING REPORTS	80
C72	MAKE STAFF ASSISTANCE VISITS	80
N441	COORDINATE WITH DATA SERVICES ON ACCURACY OR TIMING OF	* -
*****	REPORTS	80
E120	PREPARE AIRCRAFT OR MISSILE STATUS DATA	80
L408	PREPARE OR MAINTAIN MECHANIZED REPORTS ON AEROSPACE	-
£ 100	VEHICLE OR EQUIPMENT STATUS, INVENTORY, OR UTILIZATION	60
NAAG	INPUT OR UPDATE CURRENT INVENTORY DATA ON ASSIGNED	V S
טדדוו	EQUIPMENT USING REMOTE DEVICES	60
F156		60
1 130	COUNTEL VERGOLVE ACTUACE PROPERTY FUNDING	~

TABLE XIV

GROUP ID NUMBER AND TITLE: GRP178 - TECHNICAL TRAINING INSTRUCTORS

INDEPENDENT JOB TYPE

GROUP SIZE: 23

GRADE: E-5

PERCENT OF SAMPLE: 1%

AVERAGE TICF: 84 MONTHS

GRADE: E-5 AVERAGE TAFMS: 133 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
D83	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	96
	•	
D77	ADMINISTER OR SCORE TESTS	96
D86	COUNSEL TRAINEES ON TRAINING PROGRESS OR PROBLEMS	87
38d	DEVELOP COURSE CURRICULA OR PLANS OF INSTRUCTION (POI)	7 0
D87	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	65
B21	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
. •-	MATTERS	65
D94	EVALUATE TRAINING METHODS OR TECHNIQUES	57
D92	EVALUATE COURSE CURRICULUM OR POI	52
D101	WRITE TESTS, OTHER THAN SKT	43
D97	PREPARE OR UPDATE TRAINING RECORDS	39
D95	EVALUATE TRAINING PROGRAMS	3 5
D84	CONDUCT TRAINING BRIEFINGS	30
B35	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	30
D90	ESTABLISH RESIDENT COURSE TRAINING REQUIREMENTS	30

TABLE XV

GROUP ID NUMBER AND TITLE: GRP174 - SUPERVISORS/MANAGERS CLUSTER GROUP SIZE: 333
GRADE: E-6, E-7
AVERAGE TAFMS: 194 MONTHS PERCENT OF SAMPLE: 16% AVERAGE TICF: 118 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
B26	DRAFT CORRESPONDENCE	91
B21	COUNSEL SUBORDINATES ON PERSONAL OR MILITARY-RELATED	
	MATTERS	89
C73	PREPARE AIRMAN PERFORMANCE REPORTS (APR)	85
B35	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	83
B23	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS BOARDS,	
	GRAPHS, OR CHARTS	82
B 19	ADVISE CHIEF OF MAINTENANCE ON EQUIPMENT MAINTENANCE OR	
	UTILIZATION	79
A7	ESTABLISH WORK PRIORITIES	78
A10	PLAN OR SCHEDULE WORK ASSIGNMENTS	74
Αl	ASSIGN PERSONNEL TO DUTY POSITIONS PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS ANALYZE WORKLOAD REQUIREMENTS	74
A13	PREPARE OR UPDATE LOCAL OPERATING INSTRUCTIONS	72
UUT	MUNETEE MONKEOND REGULARIEMIS	07
A2	ASSIGN SPONSORS FOR NEW PERSONNEL	66
A5	ESTABLISH PERSONNEL PERFORMANCE STANDARDS	63
บ81	CONDUCT OJT	62
C76	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS,	
	EXCLUDING TRAINING REPORTS	61
D87	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	58
	DRAFT OR REVISE JOB DESCRIPTIONS	57
F165	EVALUATE MAINTENANCE DATA COLLECTION (MDC) DATA	55
	EVALUATE WORK SCHEDULES	54
	PREPARE AIRCRAFT STUDIES OR BRIEFINGS	53
C60	EVALUATE INSPECTION REPORTS OR PROCEDURES	49